

Unconfirmed



505703

ENVIRONMENTAL PROTECTION AGENCY
NOTIS DATA MANAGEMENT SYSTEM

NOTIS REPORT #4

LISTING BY FACILITY
REGION: 05 STATE: MIPAGE: 209
REPORT DATE: 10/14/81

NOTIFICATION ID NO.	SITE NAME SITE STREET SITE CITY SITE COUNTY EPA SITE ID NO.	NOTIFIER NAME NOTIFIER STREET NOTIFIER CITY (CONTACT NAME/TITLE) (CONTACT PHONE)	NOTIFIER STATUS (PRES OWN, PAST OWN PRES OP, PAST OP TRANSPORTER, VOLUNTEER)
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MI0000001202

STEEL & TUBES DIV.-FERNDALE PLANT
965 WANDA AVE.
FERNDAL 48220
OAKLAND
MID005515705

G.W. KRAUSS, PLANT SUPERINTENDENT

PRES OP

(LENNOX, DENNIS, PLANT ENGINEER)
(313-398-1600)

RELEASES TO THE ENVIRONMENT: NONE

DATES OF WASTE HANDLING: 1929 TO 1979

WASTE AMOUNT:

1.300 CU FT

AREA:

10,000 SQ FT

HAP PRESENT: NO

FORM TYPE: 8900-1

NOTIF. POSTMARKED DATE: 81/06/08

SIGNATURE PRESENT: YES

DATE OF LAST UPDATE: 81/09/25

TYPE OF FACILITY:

TYPES OF WASTES

SOURCES OF WASTE

OTHER (SEE COMMENTS)

LANDFILL
TANKS

ORGANICS
INORGANICS
OTHER

PLATING/POLISHING
OTHER (SEE COMMENTS)

COMMENTS

SEQ NO.

THIS SITE HAS BEEN USED FOR DISPOSAL OF
SLUDGE FROM MILL COOLANT TANKS, WASH
TANKS, AND A NON-CYANIDE ZINC PLATING
TANK. THE COOLANT TANK SLUDGES CONSIST
OF WATER, OIL, STEEL SHAVING AND DIRT.
THE WASH TANK SLUDGE IS A SOLID GREASE
MATERIAL MIXED WITH SOLVENT. THE ZINC
PLATING SLUDGE DOES NOT CONTAIN CYANIDE
COMPOUNDS. NO WELLS, SPRINGS, LAKES OR
HOUSES ARE NEARBY. THE SITE HAS BEEN
LEVELED AND FILLED WITH SOIL.

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PERMIT EVALUATION SHEET

Application No. 353-84

E.I. No. B3716

Const. Commenced? Yes (Reg. Egr. notified) No

NSPS? Yes (Coord. notified) No

Source Description (Installation date 1-71) (Covered by Permit No. 353-84)

WQD notified? Yes No

RRD notified? Yes No

Other _____

NESHAPS? Yes (Coord. notified) No

*Lime storage bin - 28 ton capacity -
slurry mixing tank below -
storage bin is filled once a month*

Control Description *Stg. bin is controlled by a
baghouse on the top of the bin
net cloth area 85 ft²
air flow 650 cfm
A/C: 7.64 fpm*

Attainment Status	TSP	SO ₂	CO	O ₃
Attainment	A	A	A	
Non Attainment				A

P - Primary
A - All Standards
* Close to Non attainment
S - Secondary
U - Unclassified

Plant Totals (TPY)				Equipment covered by this permit				
Potential	Pot. (5 years)	Allowed 12-21-76	Uncon. PPH	Expected PPH	TPY	Allowable PPH	TPY	Limit
TSP				<0.3	<1.28	0.3	1.28	0.1/1000 lbs
SO ₂								
CO								
NO _x								
VOC								

Basis for Recommendation; Comments *baghouse is a good control
for this type of opⁿ - eff. > 99.9%, TSP emi.
should be below 0.1/1000*

EOP? Yes No

Emissions Logged? Yes No

PSD? Yes No

PCDS? Yes No?

Reviewed by: Shuman Sheh Date: 5-25-84

Production Rate ☐ Confidential Normal _____ Maximum _____

Normal Operating Schedule ☐ Confidential Hours/Day 24 Days/Wk 7 Wks/Year 52

Maximum Allowable Operating Schedule Hours/Day 24 Days/Wk 7 Wks/Yr 52

Fuel type _____ Usage _____ Heat Content NA % Sulfur _____ % Ash _____

Collector Bypass Yes ☒ No _____ Reasons - Conditions _____

Process/Control Waste and Disposal _____

reprocessed

Stack, Building & Dispersion Paramaters

Bldg. 25' ϕ 30" x 30"
st. ht. 32'

Dispersion Yes ☒ No _____ Comments: _____

Emission Calculations

$$\begin{aligned} \text{allowed emis} &= 650 \times 0.075 \times 60 \times 0.1 \times 10^{-3} \\ &= 0.3 \text{ lbs/hr} \\ &= 1.28 \text{ tpy} \end{aligned}$$

DEPARTMENT OF NATURAL RESOURCES
AIR QUALITY DIVISION
PERMIT ACTIVITY REPORT

TO: <u>Tom Maki</u>		FROM: <u>Dhruuman Shah</u>		APPLICATION NO. <u>353-84</u>	
ESTABLISHMENT <u>Republic Steel Corp.</u>		COUNTY <u>63</u>		ESTABLISHMENT NO. <u>B3716</u>	
EQUIPMENT LOCATION <u>915 Wanda Ave, Ferndale</u>		DISTRICT <u>3 Pontiac</u>		DATE <u>5/1/84</u>	
REGARDING: <input checked="" type="checkbox"/> PERMIT TO INSTALL WITH SITE EVALUATION <input type="checkbox"/> TAX EXEMPTION				PLEASE REPLY BY <u>5/18/84</u>	
				<input type="checkbox"/> PERMIT TO OPERATE <input type="checkbox"/> OTHER _____	

PERMIT ENGINEER COMMENTS:

COMPLIANCE BRANCH REMARKS:

I saw ~~the~~^{this} when I did an annual inspection in December, 1983. No problems with the site, although I did not see it being filled. Recommend p to I with the following condition:

42: VES $\leq 20\%$

COMPLIANCE BRANCH RECOMMENDATIONS:

- ☒ INSTALLATION AND SITE APPROVAL
☐ TAX EXEMPTION APPROVAL

- ☐ OPERATING APPROVAL
☐ SPECIAL CONDITIONS NOTED ABOVE

☐ DENIAL AS EXPLAINED

NAME Jandi Lee

DATE 5-8-84

DISTRICT ENGINEER INITIALS mnp

DISTRIBUTION: White — Division Office; Canary — Permit File; Pink — District Office; Goldenrod — Temporary Permit Copy

Site Name Republic Steel Corp Steel Tubes
County Oakland

CALL LOG

- 1) Verify Site Location and Size.
- 2) Verify # and size of each containment structure.
- 3) Is there existing exposure of people documented?
- 4) Is the site fenced? Is it secure?
- 5) If sampling was done, how were samples collected? i.e. random selective, surface grab, composite etc..
- 6) Has the fire marshall considered the site a fire hazard?
- 7) What type of companies used the site? (Origin of chemicals)

<u>DATE</u>	<u>AGENCY</u>	<u>PHONE NUMBER</u>	<u>PERSON CONTACTED</u>
8/18/87	OAKLAND CO. POLLUTION CONTROL	(313) 547-1195	Charles McKinnon
	high amounts of zinc in wastes put through sewer system - new WWT system on site - sends effluent to Detroit WWTP no knowledge of problems from on-site filling	(313) 544-4694	
8/18/87	MDNR WASTE MGT	NORTHVILLE	
	<u>LTV</u> has a file...	(313) 344-4670	
8/18/87	Oakland Co Health Dept.	(313) 838-1280	Gary Fricke
	will return call no information at OCHD on this site		
8/13/87	City Of Madison Heights Ferndale	(313) 547-6000	Frank Luxon
	referred to Oakland Co. Pollution Control - currently site is discharging high levels of heavy metals into sewer.		

Prepared by: D. Courtney

Ref # #7
Site Name REPUBLIC STEEL CORP.
MID # 005515705

Site Name Republic STEEL CORP. STEEL - TUBES
County WAYNE

CALL LOG

- 1) Verify Site Location and Size.
- 2) Verify # and size of each containment structure.
- 3) Is there existing exposure of people documented?
- 4) Is the site fenced? Is it secure?
- 5) If sampling was done, how were samples collected? i.e. random selective, surface grab, composite etc..
- 6) Has the fire marshall considered the site a fire hazard?
- 7) What type of companies used the site? (Origin of chemicals)

<u>DATE</u>	<u>AGENCY</u>	<u>PHONE NUMBER</u>	<u>PERSON CONTACTED</u>
2-3	MDPH - Spoutfield	(313) 424-7187	Bill Carlson
	Bill stated that the entire area is on a municipal water supply. - any use of private wells would more than likely not be ^{be} for irrigation purposes.		
2-3	City of Detroit - FORESTRY DEPT.		
	- STATED that the pond in Palmer Park is not inhabited by Fish, but is used for bathing by youths (Not set up for this purpose)		
2-16	Hazel Park Race Track	(313) 398-1003	
	- Stated that well was no longer used for irrigation purposes - water supply from the City. - wasn't sure if well was still in operation for other uses.		

Prepared by:

Jeffrey A. Natica

Ref # 4Site Name Republic Steel CorpMID # 05515205

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

County Oakland	Twp. Royal Oak	Fraction NE 1/4 NE 1/4 NE 1/4	Section No. 25	Town 1 N 4 E	Range 11 E 1/4
Distance And Direction from Road Intersections S. W. Corner of 10 Mile and Dequindre			OWNER OF WELL: Hazel Park Racing Assoc. Inc. Address 650 E. 10 Mile Road Hazel Park, Michigan		
Street address & City of Well Location			3 WELL DEPTH: (Completed) 145 ft. Date of Completion 2-23-67		
2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	5 <input checked="" type="checkbox"/> Cable tool: <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>		
Fill	19'	19'	6 USE: <input type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/>		
Gray Clay	65'	84'	7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Diam. 6 in. to 1 3/4 ft. Depth 6 ft. Height: Above/Below surface 6 ft. Weight 19.45 lbs./ft. Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Hardpan	13'	97'	8 SCREEN: Type Johnson Stainless Dia.: 6" top 5' #10 Bottom 5' #95 Length 10' Set between 131 ft. and 145 ft. Fittings: 5" x 23" nipple		
Clay	12'	109'	9 STATIC WATER LEVEL 56 ft. below land surface		
Putty Sand	12'	121'	10 PUMPING LEVEL below land surface 117 ft. after 16 hrs. pumping 50 g.p.m. ft. after hrs. pumping g.p.m.		
Hard Clay	11'	132'	11 WATER QUALITY in Parts Per Million: Iron (Fe) 2.0 Chlorides (Cl) 85.5 Hardness 68.4		
Fine Sand	6'	138'	12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade		
Coarse Sand	7'	145'	13 GROUTING: Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Material: <input type="checkbox"/> Neat Cement <input type="checkbox"/> Depth: From ft. to ft.		
			14 SANITARY: UNKNOWN Nearest Source of possible contamination feet Direction Type Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
			15 PUMP: Manufacturer's Name Jacuzzi Model Number 2S6A5T HP 2 Length of Drop Pipe 117 ft. capacity 15 G.P.M. Type: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating		
16 Remarks, elevation, source of data, etc.			17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. O. O. Corsant Inc. 0025 REGISTERED BUSINESS NAME REGISTRATION NO. Address 15101 W. 11 Mile Road, Oak Park 48010 Signed Owen Corsant Dated June 13, 1967 AUTHORIZED REPRESENTATIVE		

ADDED INFO. BY DRILLER. ITEM NO.

CORRECTED BY:

REVISION NO.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF

LOT #57 SUP. PLAT #2 PUBLIC HEALTH

1 LOCATION OF WELL

County MACOMB	Twp. WARREN	Fraction NW 1/4 SE 1/4 NE 1/4	Section No. 30	Town 1 N.	Range 12 E.
Distance And Direction from Road Intersections 3 MI. W of RYAN & 10 MI. S of THOMAS WARREN, MICH			OWNER OF WELL: ARNOLD F. FILLER Address 19111 PENNINGTON DR, DET. MICH.		
Street address & City of Well Location					

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	4 WELL DEPTH: (completed) Date of Completion
FILL	2'	2'	119 ft. 11-26-66
BLUE CLAY	68	70	5 <input checked="" type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>
GAS MUD HOLE	1	71	6 USE: <input type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Test Well <input type="checkbox"/>
HARD PAN	21	92	7 CASING: Threaded <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Height: Above/Below surface 1 ft. Diam. # in. to 119 ft. Depth 119 ft. Weight 1 lbs./ft. Drive Shoe? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
SANDY CLAY	20	112	8 SCREEN: Type: JOHNSON STANDARD STEEL Slot/Gauge H Length 66" Set between 110 ft. and 119 ft. Fittings: TAPERED
FINE CLEAN SAND	4	116	9 STATIC WATER LEVEL 119 ft. below land surface
COARSE	1	117	10 PUMPING LEVEL below land surface 8H ft. after 3 hrs. pumping 13 g.p.m. 119 ft. after 3 hrs. pumping 13 g.p.m.
FINE	2	119	11 WATER QUALITY in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____
DIRTY FINE SAND			12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade
			13 GROUTING: Well Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Material: <input type="checkbox"/> Near Cement <input type="checkbox"/> _____ Depth: From _____ ft. to _____ ft.
			14 SANITARY: Nearest Source of possible contamination 85 feet E Direction SEPTIC Type _____ Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			15 PUMP: Manufacturer's Name RED JACKET Model Number R50N1700HP Length of Drop Pipe 105 ft. capacity _____ G.P.M. Type: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO. BY DRILLER, ITEM NO.

CORRECTED BY:

ADDITION BY: **RTD 2/6/67**

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Ray A. Filler
REGISTERED BUSINESS NAME **Ray A. Filler** REGISTRATION NO. **0000**Address: **19111 PENNINGTON DR, WARREN**Signed: **Ray A. Filler** Date: **11-26-66**

AUTHORIZED REPRESENTATIVE

DEWATERING WELL RECORD

Act 218, P.A. 1972

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

LOCATION OF WELL

County OAKLAND	Township Name ROYAL OAK	Fraction SE 1/4 SE 1/4 NW 1/4	Section Number 21	Town Number 1-N	Range Number 11-E	E/W.
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STARTING POINT:

Distance and Direction from Nearest Road Intersection

**60° WEST OF KENILWORTH ST AT
WOODWARD AVE. (CITY OF ROYAL OAK)**

LOCATION:

From Eng. Plan Sheet No. **9**

Other: _____

Engineering Firm: **MICH. DEPT. OF TRANS.**

PROJECT OWNER: **MICHIGAN DEPT. OF TRANSPORTATION**

Address: **27436 MOUND RD., WARREN, MI 48092**

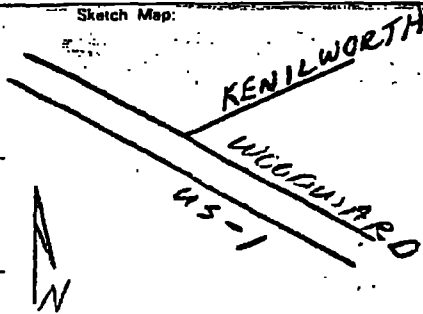
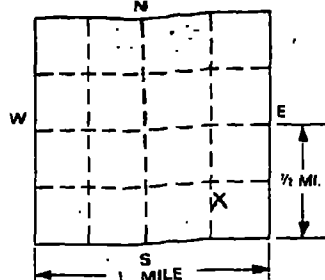
Project Name: **I 63102 - 22645A**

Type of ☐ Sewer ☐ Pumping Station

Project ☐ Foundations Other: **WATER MAIN**

Locate with "X" in section below

Sketch Map:



- 2 ☐ Single Well
☒ Several Wells: Total Number of Wells **4**
 Total Distance Covered **100** ft. N/S/E/W
 Includes Wells From Station _____ to Station _____

Well Depth - Range **25** ft. **26** ft. Date of Drilling **10** Month **85** Year

- 4 ☐ Cable Tool ☐ Rotary ☒ Bored (Auger)
☐ Jetted ☐ Driven

3 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
TOPSOIL & MIXED FILL	4'	4'
FINE YELLOW SAND	6'	10'
SILTY SAND, GREY TO YELLOW	16'	26'
(USE REMARKS SECTION IF NEEDED)		

- 5 CONSTRUCTION DETAILS: ☐ Drive Points ☐ Rock Well
☐ Natural Pack ☒ Gravel Pack
 Drill Hole Size: Diam **36** in Depth **26** ft
 Casing: Diam **14** in Depth **26** ft
 Gravel Pack: From **4** ft to **26** ft
 Pack Material: **BIRDS-EYE STONE**
 Screened From **14** ft to **26** ft

6 STATIC WATER LEVEL **12** ft above/below land surface

8 ABANDONMENT PROCEDURES:

Wells under 40 feet

- ☐ Parent Material: from _____ ft to _____ ft
☐ Finer Textured Soils: from _____ ft to _____ ft
☐ Other: _____

Wells over 40 feet:

Bentonite-Fine Textured Soil Mixture
 from _____ ft to _____ ft
 Other: _____

- Special Cases: ☐ Gas ☐ Flowing Well
☐ Bedrock ☐ _____

Grout

- ☐ Bentonite Grout ☐ Neat Cement Grout
 from _____ ft to _____ ft

9 ABANDONMENT CERTIFICATION

This well has been abandoned under my jurisdiction and this report is true to the best of my knowledge and belief.

- 7 DEWATERED LEVEL **26** ft
 Pump Operated **24** hr/day.
 Pump Capacity **10-20** gpm
 Discharge Point **STORM SEWER**

(river, pond, lake, storm sewer, etc.)

10 REMARKS, Water Quality, Gas, etc.

RECEIVED
 Mich. Dept. of Public Health
NOV 15 1985

Bureau of Environmental and
 Occupational Health - GWOS

11 DRILLING CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

REGISTERED CONTRACTOR NAME _____ REGISTRATION NUMBER _____

Address _____

Signed _____ AUTHORIZED REPRESENTATIVE DATE _____

GREENFIELD CONSTRUCTION CO., INC. 82-11670
 REGISTERED CONTRACTOR NAME _____ REGISTRATION NUMBER _____

Address **13040 MERRIMAN RD., LIVONIA, MI 48150**

Signed *Lawrence T. Gilbert* 11/12/85
 AUTHORIZED REPRESENTATIVE DATE

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL			3 OWNER OF WELL		
County <u>MACOMB</u>	Twp. <u>WARREN</u>	Fraction <u>1/4 SE 1/4 SE 1/4</u>	Section No. <u>20</u>	Town <u>1 N 1/2</u>	Range <u>12 E 1/2</u>
Distance And Direction from Road Intersections <u>5777- 10 MILE RD.</u> <u>WARREN MICH</u> Street address & City of Well Location			OWNER No. 		
2 FORMATION			4 WELL DEPTH: (completed) Date of Completion		
THICKNESS OF STRATUM			112 ft. <u>Aug 28, 68</u>		
DEPTH TO BOTTOM OF STRATUM					
<u>TOP SOIL</u>			5 <input checked="" type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug		
<u>YELLOW SAND</u>			<input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>		
<u>HARD PAN</u>			6 USE: <input type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input checked="" type="checkbox"/> Industry		
<u>WATER SAND</u>			<input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial		
			<input type="checkbox"/> Test Well <input type="checkbox"/>		
			7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Height: Above/Below surface _____ ft.		
			Diam. _____ in. to _____ ft. Depth _____ in. to _____ ft. Depth _____ in. to _____ ft. Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
			8 SCREEN:		
			Type: <u>S.S.</u> Dia.: <u>4"</u>		
			Slot/Gauze <u>35</u> Length <u>5 ft.</u>		
			Set between <u>107</u> ft. and <u>112</u> ft.		
			Fittings: <u>Standard</u>		
			9 STATIC WATER LEVEL <u>60</u> ft. below land surface		
			10 PUMPING LEVEL below land surface		
			<u>60</u> ft. after <u>4</u> hrs. pumping <u>20</u> g.p.m.		
			<u>60</u> ft. after <u>8</u> hrs. pumping <u>20</u> g.p.m.		
			11 WATER QUALITY in Parts Per Million:		
			Iron (Fe) _____ Chlorides (Cl) _____		
			Hardness _____		
			12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit		
			<input checked="" type="checkbox"/> Pitless Adapter <input checked="" type="checkbox"/> 12" Above Grade		
			13 GROUTING:		
			Well Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No		
			Material: <input type="checkbox"/> Neat Cement <input type="checkbox"/>		
			Depth: From _____ ft. to _____ ft.		
			14 SANITARY: <u>CITY SEWERS</u>		
			Nearest Source of possible contamination _____ feet _____ Direction _____ Type _____		
			Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
			15 PUMP:		
			Manufacturer's Name <u>RAPIDATON</u>		
			Model Number _____ HP <u>1 1/2</u>		
			Length of Drop Pipe <u>93</u> ft. capacity <u>20</u> G.P.M.		
			Type: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/>		
			<input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating		
16 Remarks, elevation, source of data, etc.			17 WATER WELL CONTRACTOR'S CERTIFICATION:		
APPROVED BY _____			This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.		
DATE _____			<u>Allen & Sons</u> <u>0753</u>		
SIGNATURE BY _____			REGISTERED BUSINESS NAME REGISTRATION NO.		
			Address <u>29866-10-12 M. RD.</u>		
			Signed <u>Allen & Sons</u> Date <u>8-68</u>		
			AUTHORIZED REPRESENTATIVE		



Michigan Field Office
15500 Sheldon Road
Northville, MI 48167

NATURAL RESOURCES COMMISSION

THOMAS J. ANDERSON
E. R. CAROLLO
JACOB A. HOEFER
STEPHEN F. MONSMA
HILARY F. SNELL
PAUL H. WENDLER
HARRY H. WHITELEY

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

RONALD O. SKOOG, Director

July 10, 1985

LTV Steel Tubular Products Co.
(Formerly Republic Steel Corp.)
965 Wanda Avenue
Ferndale, MI 48220

RE: MID 005515705

Dear Mr. Fulton:

On July 8, 1985, acting as a representative of the United States Environmental Protection Agency, I performed an inspection of your facility located at the above address to evaluate compliance of that facility with the requirements of Subtitle C of the Resource Conservation and Recovery Act (RCRA) as amended.

As a result of that inspection, it has been determined that the above facility is in violation of some of the requirements of Subtitle C of RCRA. Specifically, the following was found:

1. Hazardous waste has been accumulated in containers for more than 90 days without a permit as required by 40 CFR §262.34.
2. The facility does not have a personnel training program nor records of training as required by 40 CFR §265.16.
3. The facility does not have a contingency plan and emergency procedures as required by 40 CFR 265 Subpart D.

You may call (313) 226-7187 to get information on how to obtain a copy of the Code of Federal Regulations, title 40, parts 190 to 399.

You are requested to respond to this letter by August 8, 1985, providing documentation to this office regarding those actions taken to correct these violations. If you have any questions regarding this matter, please feel free to contact me at (313) 459-9180.

Sincerely,

Kenneth L. Damrel
Environmental Engineer
HAZARDOUS WASTE DIVISION

KD:jg

cc: U.S. EPA, Region V
B. Okwumabua

LTV Steel Company



December 19, 1984

Mr. John Bohunsky, Director
Hazardous Waste Division
Michigan Department of Natural Resources
Post Office Box 30028
Lansing, Michigan 48909

RECEIVED

JAN 4 1985

HAZARDOUS WASTE DIV

Dear Mr. Bohunsky:

This will confirm our phone conversation of December 18, during which you indicated that U.S. EPA's delisting of lime stabilized waste pickle liquor sludge (LSWPLS), formerly listed as EPA hazardous waste No. K063, is automatically effective in the state of Michigan upon U.S. EPA's effective date. As you know, EPA published its delisting of LSWPLS on June 5, 1984, to be effective December 5, 1984, (F.R. Vol 49, No. 109, page 23284).

As we also discussed, LTV plans to generate filter cake composed partially of LSWPLS as well as sludge from the neutralization of pickle rinsewaters upon start-up of pretreatment facilities presently under construction at our Detroit plant at 330 South Livernois Avenue. We expect start-up of these facilities on May 1, 1985.

Based on bench testing of simulated sludge samples and experience with similar wastes from other facilities, we expect this material to pass applicable RCRA characteristic tests which, in conjunction with U.S. EPA's delisting of LSWPLS, will enable LTV to handle and dispose the filter cake as non-hazardous waste. We will, of course, test the material when it is generated and handle it accordingly.

Thanks again for your help on this matter. If you have any questions or comments on this information, please let me know.

Very truly yours,

S. A. Green
Environmental Management Engineer
Environmental Control

SAG/fh

0224a

Republic Steel Corporation
Ferndale, Michigan

AUG 8 1984

GENERAL CONDITIONS

1. Rule 208(2) - Not more than 30 days after completion of the installation, Applicant shall apply, in writing, for a Permit to Operate. Completion of the installation is deemed to occur not later than commencement of a trial operation pursuant to Rule 201(4). Written application should be sent to: Chief, Permit Unit, Air Quality Division, Department of Natural Resources, P.O. Box 30028, Lansing, Michigan 48909.
2. Rule 201(4) - Trial operation of the equipment is permitted until the Michigan Air Pollution Control Commission acts upon the Permit to Operate. Operation of the equipment shall permanently cease upon denial of the Permit to Operate by the Commission.
3. Rule 208(3)(a) and (c) - Applicant shall demonstrate compliance with all Commission rules and with all general and special conditions of this permit prior to issuance of the Permit to Operate.
4. Rule 201 - Applicant shall not reconstruct, alter, modify, expand, or relocate this equipment unless plans, specifications, and an application for a Permit to Install are submitted to and approved by the Commission.
5. Rule 901 - Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property.
6. Rule 208(3)(b) - Operation of this equipment shall not interfere with the attainment or maintenance of the air quality standard for any air contaminant.
7. Operation of this equipment shall not result in significant deterioration of air quality.
8. Rule 912 - Applicant shall provide notification of any abnormal conditions or malfunction of process or control equipment covered by this application, resulting in emissions in violation of the Commission rules or of any permit conditions for more than two hours, to the District Engineer. Such notice shall be made as soon as reasonably possible, but not later than 9:00 a.m. of the next working day. Applicant shall also, within 10 days, submit to the District Engineer, a written detailed report, including probable causes, duration of violation, remedial action taken, and the steps which are being undertaken to prevent a reoccurrence.
9. Approval of this application does not preclude the Applicant from complying with any future regulations which may be promulgated under Act 348, P.A. 1965, as amended.
10. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
11. Act No. 53 - Applicant shall notify any public utility of any excavation, tunneling and discharging of explosives or demolition of buildings which may affect said utility's facilities in accordance with Act 53 of the Public Acts of 1974, being sections 460.701 to 460.718 of the Michigan Compiled Laws and comply with each of the requirements of that Act.

AUG 8 1984

12. The restrictions and conditions of this Permit to Install shall apply to any person or legal entity which now or shall hereafter own or operate the equipment for which this Permit to Install is issued. Any new owner or operator shall immediately notify the Chief of the Permit Unit, in writing, of such change in ownership or principal operator status of this equipment.
13. Rule 201(5) - If the installation, reconstruction, relocation, or alteration of the equipment for which this permit has been approved has not commenced within, or has been interrupted for, 18 months, this permit shall become void unless otherwise authorized by the Commission.

SPECIAL CONDITIONS

14. Rule 331 - The particulate emission from the lime storage bin shall not exceed 0.10 pounds per 1,000 pounds of exhaust gases, calculated on a dry gas basis.
15. Visible emissions from the lime storage bin shall not exceed 20% opacity except as specified in Rule 301(1)(a) and (b).
16. Rules 1001, 1003 and 1004 - Verification of particulate emissions rates from the lime storage bin by testing, at owner's expense, in accordance with Commission requirements, may be required for operating approval. If a test is required, stack testing procedures and the location of stack testing ports must have prior approval by the District Supervisor, Air Quality Division, and results shall be submitted within 120 days of the written requirement for such verification.
17. Applicant shall not operate the lime storage bin unless the baghouse is installed and operating properly.

STATE OF MICHIGAN



NATURAL RESOURCES COMMISSION

THOMAS J. ANDERSON
E. R. CARCLO
MARLENE J. FLUHARTY
STEPHEN F. MONSMA
O. STEWART MYERS
RAYMOND POUPORE
HARRY H. WHITELEY

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING
BOX 30028
LANSING, MI 48909

RONALD O. SKOOG, Director

Mr. George N. Krauss, Plant Manager
Republic Steel Corporation
Tubular Products Group
965 Wanda Avenue
Ferndale, Michigan 48220

AUG 8 1984

Dear Mr. Krauss:

This letter is in reference to your Permit to Install application for a lime storage bin with a baghouse control, located at 965 Wanda Avenue, Ferndale, Michigan. This application, identified as No. 353-84, has been evaluated and approved by the Air Quality Division, pursuant to the delegation of authority from the Michigan Air Pollution Control Commission.

This approval is based upon and subject to compliance with all administrative rules of the Commission and conditions stipulated in the attached supplement. Please review these conditions thoroughly so that you may plan for and take the necessary actions to ensure compliance with all of these conditions. Also note that Condition No. 1 requires you to apply, in writing, for a permit to operate within 30 days after completion of construction.

You are advised that contaminants discharged to the surface waters and/or groundwaters; materials disposed of on land; hazardous waste storage, treatment, and disposal; and resource recovery facilities must be approved by other divisions of the Environmental Protection Bureau, Department of Natural Resources. Additionally, your plant environment must be in compliance with all applicable requirements of the Departments of Public Health and Labor.

Approval of this permit does not constitute a waiver by the State of Michigan of its right to bring appropriate legal action against the applicant for failing to obtain the required permit prior to the commencement of construction.

Additionally, applications Nos. 351-84 and 352-84 are voided because the equipment was installed prior to August 15, 1967, and is not subject to the permit requirements.

Thank you for your cooperation. Please contact me if you have any questions regarding this permit.

Sincerely,

Dhruvan Shah, Engineer
Permit Section
Air Quality Division
517-322-1333

DS:ckn
Enclosure
cc: Tom Maki

AIR QUALITY DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
P.O. BOX 30028, LANSING, MICHIGAN 48909

APPLICATION NO.
352-84
Air Pollution Control

APPLICATION TO THE AIR POLLUTION CONTROL COMMISSION

for authority to construct, install or alter

ON _____

Establishment Number B3716

and

for permit to operate process, fuel burning, refuse burning and/or air pollution control equipment

APR 30 1984

1 PERMIT TO BE ISSUED TO: (Business License Name of Corporation, Partnership, Individual Owner, Governmental Agency)

REPUBLIC STEEL CORPORATION TUBULAR PRODUCTS GROUP

2 MAILING ADDRESS: (Number, Street, City or Village, Zip Code)

965 Wanda Ave Ferndale, Mi. 48220

3 EQUIPMENT OR PROCESS LOCATION: (Number, Street, City or Village, Township, Zip Code)

965 Wanda Ave Ferndale, Mi. 48220

4 TYPE OF ORGANIZATION.



Corporation



Partnership



Individual Owner



Governmental Agency

5. GENERAL NATURE OF BUSINESS.

Manufacture Steel Tubing and Steel Electrical Conduit

6 EQUIPMENT DESCRIPTION: Application is hereby made for permission to construct, install or alter and to operate the following equipment

- 2 Machines for printing a ruled line on 10' lengths of EMT Conduit, using 1400 gallons per year of thinner. These machines have been in operation for 25 years.

7 ESTIMATED COST:

Air Pollution Control Equipment \$ _____

Total Project \$ _____

8 PRESENT STATUS OF EQUIPMENT: (Check and complete applicable items)

- () Construction or installation not started
() Construction or installation partly completed
(X) Construction completed
() Equipment is to be altered
() Equipment is partly altered
() Equipment has been altered
() Change of location and/or ownership

Estimated
Starting Date

Estimated
Completion Date

1959

9 NAME OF PRIOR OWNER AS IN (1) ABOVE, AND PRIOR AIR POLLUTION CONTROL PERMIT NUMBER, IF ANY:

(Name)

(Permit Number)

10 TYPE OR PRINT NAME AND TITLE OF OWNER OR AUTHORIZED MEMBER OF FIRM:

(Name) George N. Krauss

(Title) Plant Manager

(Signature) *George N. Krauss*

(Date) 4/24/84 (Phone No.) 313-398-1600

11. DISPOSITION OF APPLICATION:

Permit to install approved and issued on _____

Signature _____

Permit to operate approved and issued on _____

Signature _____

VOID

547-600 City of Ferndale

Republic Steel Corp Steel & Tubes Div—

wastes: Sludge coolant tank City of Madison Heights
oil
Steel shavings 588-1200

sludge wash tank

grease
solvent

Sludge zinc plating
zinc no cyanide

1300 cubic feet

10000 sq. ft. facility

landfill

|| Frank Luxon || will call

LTV STEEL / TUBULAR DIV.
"Republic Steel" usw.

Metallurgical Coatings
Metal Surface Treatments

hot-dip ^{zinc} galvanizing - no
significant environmental hazard

REF 146

Cleaning solvents - flammable or toxic

Chlorides

Ref 11

Debate - Relative

8/13/87

Wastewater treatment plant installed
in the last year

Oakland County Pollution Control —
Sewer monitoring

violation ~~dated~~ July 28
sent to Mr. Frank Luxani
Mr. Charles McKinnon
(313) 547-1195
pH factor 1.9
zinc 560 ppm
544 464

Mr. ^{RON} Miller
LTV

Supervisor

(313) 398-1600

limited 5.5 pH
15 ppm

MR. BILLINGS
CITY OF DETROIT

Low pH water

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

INTEROFFICE COMMUNICATION

February 26, 1986.

TO: Site File
FROM: Steve Cunningham
SUBJECT: Unfounded Allegation

This site was reviewed during the 1985 Act 307 list production process. At the time of that review, this site was considered to be an unfounded allegation due to a lack of information or conditions at the site that do not meet the definitions of a site of environmental contamination per Act 307, P.A. 1982. Further review of this site should concentrate on data entered into the file after January 1, 1986.

LTV Steel Company



December 19, 1984

Mr. John Bohunsky, Director
Hazardous Waste Division
Michigan Department of Natural Resources
Post Office Box 30028
Lansing, Michigan 48909

RECEIVED

JAN 4 1985

HAZARDOUS WASTE DIV

Dear Mr. Bohunsky:

This will confirm our phone conversation of December 18, during which you indicated that U.S. EPA's delisting of lime stabilized waste pickle liquor sludge (LSWPLS), formerly listed as EPA hazardous waste No. K063, is automatically effective in the state of Michigan upon U.S. EPA's effective date. As you know, EPA published its delisting of LSWPLS on June 5, 1984, to be effective December 5, 1984, (F.R. Vol 49, No. 109, page 23284).

As we also discussed, LTV plans to generate filter cake composed partially of LSWPLS as well as sludge from the neutralization of pickle rinsewaters upon start-up of pretreatment facilities presently under construction at our Detroit plant at 330 South Livernois Avenue. We expect start-up of these facilities on May 1, 1985.

Based on bench testing of simulated sludge samples and experience with similar wastes from other facilities, we expect this material to pass applicable RCRA characteristic tests which, in conjunction with U.S. EPA's delisting of LSWPLS, will enable LTV to handle and dispose the filter cake as non-hazardous waste. We will, of course, test the material when it is generated and handle it accordingly.

Thanks again for your help on this matter. If you have any questions or comments on this information, please let me know.

Very truly yours,

S. A. Green
Environmental Management Engineer
Environmental Control

SAG/Fh

0224a

WM

NATURAL RESOURCES COMMISSION

THOMAS J. ANDERSON
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JAMES J. BLANCHARD, Governor

S.E. Michigan Field Office
15500 Sheldon Road
Northville, MI 48167

DEPARTMENT OF NATURAL RESOURCES

RONALD D. SKOOG, Director

October 30, 1985

~~Republic Steel Tubular Products Corp.~~

(Formerly Republic Steel Corp.)
965 Wanda Avenue
Ferndale, MI 48220
Attn: Ronald Miller

RE: MID 005515705

Dear Mr. Miller:

This letter is to acknowledge receipt of your letter dated October 24, 1985, indicating your compliance program for RCRA deficiencies cited during my inspection on July 8, 1985. I consider your response acceptable at this time and will evaluate the adequacy of your program during future inspections.

Thank you for your cooperation. If you have any questions, please feel free to contact me at (313) 459-9180.

Sincerely,

Kenneth L. Damrel

Kenneth L. Damrel
Environmental Engineer
HAZARDOUS WASTE DIVISION

KD:jg

cc: U.S. EPA, Region V
B. Okwumabua

STATE OF MICHIGAN



S.E. Michigan Field Office
15500 Sheldon Road
Northville, MI 48167

NATURAL RESOURCES COMMISSION

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DEPARTMENT OF NATURAL RESOURCES

RONALD O. SKOOG, Director

October 4, 1985

LTV Steel Tubular Products Co.
(Formerly Republic Steel Corp.)
965 Wanda Ave.
Ferndale, MI 48220
Attn: Jesse Fulton

RE: MID 005515705

Dear Mr. Fulton:

This letter is to acknowledge receipt of your letter dated August 8, 1985, indicating your compliance program for RCRA deficiencies cited during my inspection on July 8, 1985.

After review of your response it was found that the draft contingency plan does not contain the names, addresses, and phone numbers of all emergency coordinators as required by 40 CFR §265.52(d) nor a list of emergency equipment as required by 40 CFR §265.52(e).

Please supply a revised contingency plan to this office by October 30, 1985. Thank you for your cooperation. If you have any questions, please feel free to contact me at (313) 459-9180.

Sincerely,

A handwritten signature in cursive script that reads "Kenneth L. Damrel".

Kenneth L. Damrel
Environmental Engineer
HAZARDOUS WASTE DIVISION

KD:jg

cc: U.S. EPA, Region V
B. Okwumabua

October 24, 1985

Michigan Department of Natural Resources
Southeast Michigan Field Office
15500 Sheldon Rd.
Northville, Mi. 48167

Att: Kenneth L. Damrel

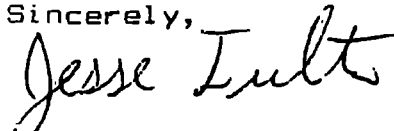
Re: MID 005515705

Dear Mr. Damrel:

Attached is a revised contingency plan which includes the information you requested in your letter of October 4, 1985.

If you require further information, please contact Mr. Ronald Miller at this address and telephone, as I will no longer be with LTV Steel after October 31, 1985.

Sincerely,



Jesse Fulton
Plant Engineer

OCT 28 1985
HAZARDOUS WASTE DIV

52971FUL

CONTINGENCY PLAN AND EMERGENCY PROCEDURES FOR HAZARDOUS MATERIAL

1. Determine categories involved.
2. Consider possible emergencies for each category.
3. Plan appropriate reaction, including:
 - a. Obtaining help.
 - b. Notifying police and fire departments.
 - c. Notifying regulatory authorities.
 - d. Cleaning up and disposal of residue.
4. Follow-up and reporting.
5. Maintain documentation of procedures and incidents.

EMERGENCY PROCEDURES FOR HAZARDOUS MATERIAL

Categories:

- Flammable liquids and solids.
- Zinc plating tank sludge.
- Other

Possible emergencies:

- Fire.
- Spill.

Reaction:

In case of fire, pull the nearest fire alarm station. This will bring immediate help with fire extinguisher. The shift supervisor, acting as the Fire Captain, will direct the efforts of the Fire Brigade to contain the fire. The Ferndale Fire Department will be notified as directed by the Fire Captain. The Fire Brigade's efforts will be directed toward containing the fire, and the Ferndale Fire Department will extinguish it.

In case of a spill involving a flammable liquid or solid, proper fire extinguishers will be readied in the vicinity, and a trained Fire Brigade will be assembled. Spills will be cleaned up by diking the affected area with oil absorbant clay ("Speedy Dry"), and soaking up the spilled material. This flammable solid residue will be placed in a drum, properly labeled, and held for disposal.

In case of a spill of zinc plating tank sludge, the material should be shoveled into a second container, properly labeled, and held for disposal.

In the case of other material, efforts must be made to salvage it for use as intended. If this cannot be done, and the spilled material must be discarded, immediately contact engineering for correct procedure, as a notification to governmental authority may be required.

Follow-up:

A standard procedure exception report must be completed for each above instance. This will provide documentation necessary for any investigations which may be necessary. These reports will be forwarded to engineering for filing.

August 8, 1985

RECEIVED
AUG 12 1985

Michigan Department of Natural Resources
Southeast Michigan Field Office
15500 Sheldon Rd.
Northville, Mi. 48167

Att: Kenneth L. Damrel

RE: MID 005515705

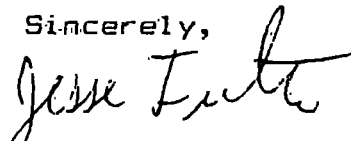
Dear Mr. Damrel:

As requested in your letter of July 10, 1985, we have taken the following actions:

1. Arrangements were made through Chemical Waste Management to transport hazardous waste to their Emelle, Alabama, facility for disposal. This material will be shipped during the week of August 12-16, 1985, depending on the availability of their unloading facility. Due to a change in our process, we will no longer be generating this specific waste stream, and this shipment will conclude our handling of it.
2. A formal personnel training program is being developed, and a draft copy attached. We expect this program to be in place by September 10, 1985, with training to be completed by October 8, 1985.
3. A contingency and emergency procedures plan is being developed, and a draft copy is attached. This plan will be implemented by September 10, 1985.

I will inform you if there are any changes in this schedule. If you have any questions or desire further information, please call me at 313-398-1600.

Sincerely,



Jesse Fulton
Plant Engineer



Michigan Field Office
15500 Sheldon Road
Northville, MI 48167

NATURAL RESOURCES COMMISSION

THOMAS J. ANDERSON
E. R. CAROLLO
JACOB A. HOEFER
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HILARY F. SNELL
PAUL H. WENDLER
HARRY H. WHITELEY

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

RONALD O. SKOOG, Director

July 10, 1985

LTV Steel Tubular Products Co.
(Formerly Republic Steel Corp.)
965 Wanda Avenue
Ferndale, MI 48220

RE: MID 005515705

Dear Mr. Fulton:

On July 8, 1985, acting as a representative of the United States Environmental Protection Agency, I performed an inspection of your facility located at the above address to evaluate compliance of that facility with the requirements of Subtitle C of the Resource Conservation and Recovery Act (RCRA) as amended.

As a result of that inspection, it has been determined that the above facility is in violation of some of the requirements of Subtitle C of RCRA. Specifically, the following was found:

1. Hazardous waste has been accumulated in containers for more than 90 days without a permit as required by 40 CFR §262.34.
2. The facility does not have a personnel training program nor records of training as required by 40 CFR §265.16.
3. The facility does not have a contingency plan and emergency procedures as required by 40 CFR 265 Subpart D.

You may call (313) 226-7187 to get information on how to obtain a copy of the Code of Federal Regulations, title 40, parts 190 to 399.

You are requested to respond to this letter by August 8, 1985, providing documentation to this office regarding those actions taken to correct these violations. If you have any questions regarding this matter, please feel free to contact me at (313) 459-9180.

Sincerely,

Kenneth L. Damrel
Environmental Engineer
HAZARDOUS WASTE DIVISION

KD:jg

cc: U.S. EPA, Region V
B. Okwumabua

RCRA Inspection Report

EPA Identification Number: MI D 005515705

Installation Name: Republic Steel Corp. (LTV Steel Tubular Products Co.)

Location Address: 965 Wanda Ave

City: Ferndale

State: MI

Date of inspection: 7-8-85

Time of inspection (from) 10:30 (to) 12:00

Person(s) interviewed

Title

Telephone

Jesse Fulton

Plant Engineer

313-398-1600

Inspector(s) Kenneth L. Damrel

Agency/Title MDNR/HWD/Env. Eng.

Telephone 313-459-9180

Installation Activity (mark only one box)

Inspection Form(s)

☐ Treatment/Storage/Disposal per 40 CFR 265.1 and/or Generation and/or Transportation

A

☐ Treatment/Storage/Disposal (no generation or Transportation)

A

☐ Generation and Transportation

B, C

☒ Generation only

B

☐ Transportation only

C

INSPECTION FORM B

Section A: Scope of inspection

Standards for generators of HAZARDOUS WASTE subject to 40 CFR 262.10

Section B: MANIFEST REQUIREMENTS (Part 262, Subpart B)

	Yes	No	NI*	Remarks
(1) Does the generator have copies of the manifest available for review? 262.40	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(2) Examine manifests for shipments in past 6 months. Indicate approximate number of manifested shipments during that period.	<u>11</u>			7 non hazardous 4 hazardous
(3) Do the manifest forms examined contain the following information? (If possible, make copies of, or record information from, manifests that do not contain the critical elements) 262.21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
a. Manifest document number?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Name, mailing address, telephone number, and EPA ID number of generator?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Name and EPA ID number of transporter(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d. Name, Address, and EPA ID Number of designated permitted facility and alternate facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e. The description of the waste(s) (DOT shipping name, DOT hazard class, DOT identification number)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f. The total quantity of waste(s) and the type and number of containers loaded?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
g. Required certification?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
h. Required signatures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(4) Reportable exceptions 262.42				
a. For manifests examined in (2) (except for shipments within the last 35 days), enter the number of manifests for which the generator has <u>NOT</u> received a signed copy from the designated facility within 35 days of the date of shipment.				<u>0</u>
b. For manifests indicated in (4a), enter the number for which the generator has submitted exception reports (40 CFR 262.42) to the Regional Administrator.				<u>0</u>

tion C - PRE-TRANSPORT REQUIRE ITS
(40 CFR Part 262 Subpart C)

	Yes	No	NI	Remarks
(1) Is waste packaged in accordance with DOT regulations? (Required prior to movement of hazardous waste off-site) 262.30	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(2) Are waste packages marked and labeled in accordance with DOT regulations concerning hazardous waste materials? (Required prior to movement of hazardous waste off-site) 262.31 and 262.32	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(3) If required, are placards available to transporter? 262.33	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rely on transporter

** (4) Pre-shipment Accumulation:

** applies only to GENERATORS that store hazardous waste on-site for 90 days or less without a permit. These items do not apply to generators whose waste is immediately transported off-site.

a. Is hazardous waste accumulated in containers? If no, skip to b. 262.34	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
i. Is each container clearly marked with the date on which the period of accumulation began?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ii. Have more than 90 days elapsed since the dates marked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
iii. Is each container labeled or marked clearly with the words "Hazardous Wastes?"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
iv. Are containers in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
v. Are containers compatible with waste in them?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
vi. Are containers managed to prevent leaks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
vii. Are containers stored closed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
viii. Are containers inspected weekly for leaks and defects?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ix. Are ignitable and reactive wastes stored at least 15 meters (50 feet) from the facility property line? (Indicate if waste is ignitable or reactive).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ignitable

	Yes	No	NI	Remarks
x. Are incompatible wastes stored in separate containers? (If not, the provisions of 40 CFR 265.17(b) apply.)			✓	N/a
xi. Are containers of incompatible waste separated or protected from each other by physical barriers or sufficient distance?			✓	
b. Is hazardous waste accumulated in tanks? If no, skip to c. 265.34 (January 11, 1982 revision)			✓	
i. Is each tank labeled or marked clearly with the words "Hazardous Wastes"? 265.34 (January 1982 revision)				
ii. Are tanks used to store only those wastes which will not cause corrosion, leakage or premature failure of the tank? 265.192				
iii. Do uncovered tanks have at least 60 cm (2 feet) of freeboard, or dikes or other containment structures?				
iv. Do continuous feed systems have a waste-feed cutoff?				
v. Are waste analyses done before the tanks are used to store a substantially different waste than before? 265.193				
vi. Are required daily and weekly inspections done? 265.194				
vii. Are reactive and ignitable wastes in tanks protected or rendered non-reactive or nonignitable? Indicate if waste is ignitable or reactive. (If waste is rendered non-reactive or nonignitable, see treatment requirements.) 265.198				
viii. Are incompatible wastes stored in separate tanks? (If not, the provisions of 40 CFR §265.17(b) apply.) 265.199				

- ix. Has the owner or operator observed the National Fire Protection Association's buffer zone requirements for tanks containing ignitable or reactive wastes?

Tank capacity: _____ gallons

Tank diameter: _____ feet

Distance of tank from property line _____ feet

(see tables 2-1 through 2-6 of NFPA's "Flammable and Combustible Liquids Code - 1977" to determine compliance.)

- c. Is hazardous waste accumulated in other than tanks or containers?

_____ ✓ _____

- d. Personnel training. 262.34 (a) 5

Do personnel training records include: 265.16

- i. Job Titles?
ii. Job Descriptions?
iii. Description of training?
iv. Records of training?
v. Did personnel receive the required training by 5-19-81?
vi. Do new personnel receive required training within six months?
vii. Do personnel training records indicate that personnel have taken part in an annual review of initial training?

_____ ✓ _____ No formal
+ training
program

- e. Preparedness and Prevention 265. Subpart C

- i. Maintenance and Operation of Facility:

Is there any evidence of fire, explosion, or release of hazardous waste or hazardous waste constituent? 264.31

_____ ✓ _____

ii. If required, does this facility have the following equipment: 264.32

Internal communications or alarm systems?	<input checked="" type="checkbox"/>	_____	_____	_____
Telephone or 2-way Radios at the scene of operations?	<input checked="" type="checkbox"/>	_____	_____	_____
Portable fire extinguishers, fire control, spill control equipment and decontamination equipment?	<input checked="" type="checkbox"/>	_____	_____	_____

Indicate the volume of water and/or foam available for fire control:

Portable extinguishers, city water

iii. Testing and Maintenance of Emergency Equipment: 264.33

Has the owner or operator established testing and maintenance procedures for emergency equipment?	<input checked="" type="checkbox"/>	_____	_____	_____
---	-------------------------------------	-------	-------	-------

Is emergency equipment maintained in operable condition?	<input checked="" type="checkbox"/>	_____	_____	_____
--	-------------------------------------	-------	-------	-------

iv. Has owner/operator provided immediate access to internal alarms (if needed)?	<input checked="" type="checkbox"/>	_____	_____	_____
--	-------------------------------------	-------	-------	-------

v. Is there adequate aisle space for unobstructed movement?	<input checked="" type="checkbox"/>	_____	_____	_____
---	-------------------------------------	-------	-------	-------

vi. Has the owner or operator attempted to make arrangements with local authorities in case of an emergency at the facility?	<input checked="" type="checkbox"/>	_____	_____	<u>Fire Department</u>
--	-------------------------------------	-------	-------	------------------------

f. Contingency Plan and Emergency Procedures 265 Subpart D

Does the contingency plan contain the following information:

i. The actions facility personnel must take to comply with §265.51 and 265.56 in response to fires, explosions, or any unplanned release of hazardous waste? (If the owner has a Spill Prevention, Control and Countermeasures (SPCC) Plan, he needs only to amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this Part (as applicable.) 265.52	<input checked="" type="checkbox"/>	_____	_____	<u>No Contingency plan</u>
--	-------------------------------------	-------	-------	----------------------------

	Yes	No	NI	Remarks
ii. Arrangements agreed to by local police departments, hospitals, contractors, and State and local emergency response teams to coordinate emergency services, pursuant to §265.37?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
iii. Names, addresses, and phone numbers (Office and Home) of all persons qualified to act as emergency coordinator.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
iv. A list of all emergency equipment at the facility which includes the location and physical description of each item on the list, and a brief outline of its capabilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
v. An evacuation plan for facility personnel where there is a possibility that evacuation could be necessary? (This plan must describe signal(s) to be used to begin evacuation, evacuation routes and alternate evacuation routes?)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
vi. Are copies of the Contingency Plan available at site and local emergency organizations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
vii. Is the facility emergency coordinator identified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
viii. Is coordinator familiar with all aspects of site operation and emergency procedures?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
ix. Does the Emergency Coordinator have the authority to carry out the Contingency Plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
x. If an emergency situation has occurred at this facility, has the emergency coordinator followed the emergency procedures listed in 265.56?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Section D: RECORDKEEPING AND REPORTING (Part 262, Subpart D)

Yes No NI Remarks

- (1) Are all test results and analyses needed for hazardous waste determinations retained for at least three years? 262.40

☒ ☐ ☐ _____

Section E: INTERNATIONAL SHIPMENTS (Part 262 Subpart E)

262.50

- (1) Has the installation imported or exported hazardous waste? If "no", skip a and b.

☐ ☒ ☐ _____

a. Exporting Hazardous Waste, has a generator:

i. Notified the Administrator in writing?

☐ ☐ ☒ _____

ii. Obtained the signature of the foreign consignee confirming delivery of the waste(s) in the foreign country?

☐ ☐ ☒ _____

iii. Met the Manifest requirements?

☐ ☐ ☒ _____

b. Importing Hazardous Waste, has the generator met the manifest requirements?

☐ ☐ ☒ _____

AIR QUALITY DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
P.O. BOX 30028, LANSING, MICHIGAN 48909

APPLICATION NO
353-84

Air Pollution Control

APPLICATION TO THE AIR POLLUTION CONTROL COMMISSION

for authority to construct, install or alter

APPLICATION WAS RECEIVED

ON **4-30-84**

APR 30 1984

Establishment Number B3716

and

for permit to operate process, fuel burning, refuse burning and/or air pollution control equipment

1. PERMIT TO BE ISSUED TO: (Business License Name of Corporation, Partnership, Individual Owner, Governmental Agency)

REPUBLIC STEEL CORPORATION TUBULAR PRODUCTS GROUP

2. MAILING ADDRESS: (Number, Street, City or Village, Zip Code)

965 Wanda Ave Ferndale, Mi. 48220

3. EQUIPMENT OR PROCESS LOCATION: (Number, Street, City or Village, Township, Zip Code)

965 Wanda Ave Ferndale, Mi. 48220

4. TYPE OF ORGANIZATION.



Corporation



Partnership



Individual Owner



Governmental Agency

5. GENERAL NATURE OF BUSINESS.

Manufacture Steel Tubing and Steel Electrical Conduit

6. EQUIPMENT DESCRIPTION: Application is hereby made for permission to construct, install or alter and to operate the following equipment:

1. Lime storage bin, 28 ton total capacity, consisting of a 9'-9" cylindrical section, 13" in diameter on top of a 6'-5" conical section narrowing to 6' diameter at its bottom. A vibrating hopper bottom and volumetric feeder deliver the lime to a slurry mixing tank below. A baghouse type dust collector on top of the bin collects lime dust when the bin is being filled by a blower mounted on the lime delivery truck.

7. ESTIMATED COST: Air Pollution Control Equipment \$ _____ Total Project \$ _____

8. PRESENT STATUS OF EQUIPMENT: (Check and complete applicable items)

	Estimated Starting Date	Estimated Completion Date
() Construction or installation not started	_____	_____
() Construction or installation partly completed	_____	_____
(X) Construction completed	_____	1971
() Equipment is to be altered	_____	_____
() Equipment is partly altered	_____	_____
() Equipment has been altered	_____	_____
() Change of location and/or ownership	_____	_____

9. NAME OF PRIOR OWNER AS IN (1) ABOVE, AND PRIOR AIR POLLUTION CONTROL PERMIT NUMBER, IF ANY:

(Name)

(Permit Number)

10. TYPE OR PRINT NAME AND TITLE OF OWNER OR AUTHORIZED MEMBER OF FIRM:

(Name) **George N. Krauss**

(Title) **Plant Manager**

(Signature) *George N. Krauss*

(Date) **4-24-84**

(Phone No.) **313-398-1600**

11. DISPOSITION OF APPLICATION:

* Subject to compliance with all

Permit to install approved and issued on **AUG 8 1984**

Commission Rules and conditions

Permit to operate approved and issued on **MAR 6 1985**

* stipulated in the attached supplement

Signature *Robert Miller*

Signature *Robert Miller*

MNR
USE ONLY

AIR POLLUTION CONTROL COMMISSION

AIR QUALITY DIVISION MICHIGAN DEPARTMENT OF NATURAL RESOURCES

APPLICATION INSTRUCTIONS

Submit this form in triplicate; complete application requires specifications and drawings in duplicate. An application is required for basic processing equipment as well as air pollution control equipment. Basic equipment includes any article, machine, equipment or other contrivance, the use of which may cause the issuance of air contaminants. Air pollution control equipment includes any article, machine, equipment or other contrivance, the use of which may eliminate or reduce or control the issuance of air contaminants. One application will suffice for an interrelated process. This application must be signed by the owner or authorized member of firm. Please attach the following:

1. Equipment Location Drawings - Submit drawings showing:
 - a. Plan view of owner's property to boundary lines; include outline and height of all structures.
 - b. Locate and identify proposed equipment on property line.
 - c. Locate and identify all adjacent properties and all structures within 150 feet of proposed equipment showing outlines and heights.
 - d. Indicate north direction on drawing.
2. Equipment Specification - State make, model, size and type, etc. of proposed equipment and all major accessory equipment.
3. Process or Use Specification - Attach a complete written description of each process covered by this permit application. Explain clearly and in detail each process stage by including the nature, quantity, concentration, particle size, pressure, temperature, etc. of materials which may be discharged to the atmosphere. Prove sufficient control method detail to show the extent and efficiency of air pollution control devices.
4. Operating Schedule - Specify proposed equipment operating time in hours per day and days per week.
5. Process Weight - Detail type and feed rate in pounds per hour or similar measure for each process material charged.
6. Fuels and Firing Devices - Indicate for gaseous fuels: type and cubic feet per hour, for fuel oil: grade and gallons per hour, sulfur content, and specify temperature to which oil is preheated; for solid fuels: type, ultimate analysis and pounds per hour, indicate for firing device: make, model, size, type, number of devices and capacity range of each device (from minimum to maximum).
7. Flow Diagram - For continuous processes, show the flow materials either on a separate flow diagram or on the drawings accompanying the application.
8. Drawings of Equipment - Supply an assembly drawing, dimensioned to scale, in plan, elevation and as many sections as are needed to show, clearly, equipment design and operation and the means for controlling air contaminants. Structural design calculations and details are not required. When installing standard commercial equipment, the manufacturer's scale describing the equipment may be submitted in lieu of the parts of Item 8 that it covers. The following must be shown:
 - a. Size and shape of the equipment; exterior and interior dimensions and features and materials of construction.
 - b. Locations, sizes and shape details of materials handling equipment and all features which may affect the production, collection, conveying or control of air contaminants.
 - c. Horsepower rating of driving motors.
 - d. Additional information may be required.
 - e. Indicate where in the system provision is made for source testing.
9. A permit application should pertain to an individual unit of equipment or to an operation or to a series of related operations within a process which are scheduled for simultaneous installation or alteration.

After authority to construct, install or alter is granted for any equipment, deviations from the approved plans and application information required are not permissible without first securing written approval.

Further information or clarification concerning permits can be obtained from the Air Quality Division
Phone: (517) 322-1333, (Lansing) Michigan Department of Natural Resources, P.O. Box 30028
Lansing, Michigan 48909

AIR QUALITY DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
P.O. BOX 30028, LANSING, MICHIGAN 48909

APPLICATION # **251**
Air Pollution Control **84**

APR 30 1984

APPLICATION TO THE AIR POLLUTION CONTROL COMMISSION

APPLICATION WAS COMPLETE

for authority to construct, install or alter

and

for permit to operate process, fuel burning, refuse burning and/or air pollution control equipment

Establishment Number B3716

1 PERMIT TO BE ISSUED TO: (Business License Name of Corporation, Partnership, Individual Owner, Governmental Agency)
REPUBLIC STEEL CORPORATION TUBULAR PRODUCTS GROUP

2 MAILING ADDRESS: (Number, Street, City or Village, Zip Code)
965 Wanda Ave Ferndale, Mi. 48220

3 EQUIPMENT OR PROCESS LOCATION: (Number, Street, City or Village, Township, Zip Code)
965 Wanda Ave Ferndale, Mi. 48220

4 TYPE OF ORGANIZATION: ☒ Corporation ☐ Partnership ☐ Individual Owner ☐ Governmental Agency

5 GENERAL NATURE OF BUSINESS:
Manufacture Steel Tubing and Steel Electrical Conduit

6 EQUIPMENT DESCRIPTION: Application is hereby made for permission to construct, install or alter and to operate the following equipment:

- 4 Welding machines for production of steel tubing from coils of hot rolled pickled and unpickled, and cold rolled steel, using an electrical resistance welding process utilizing no filler metal. The various machines have been in operation from 17 to 26 years. A small amount of smoke is generated due to oil on the heated steel. Other than water vapor, there is no other material released to atmosphere.

7 ESTIMATED COST: Air Pollution Control Equipment \$ _____ Total Project \$ _____

8 PRESENT STATUS OF EQUIPMENT: (Check and complete applicable items)

	Estimated Starting Date	Estimated Completion Date
() Construction or installation not started	_____	_____
() Construction or installation partly completed	_____	_____
<input checked="" type="checkbox"/> Construction completed	_____	1957-1966
() Equipment is to be altered	_____	_____
() Equipment is partly altered	_____	_____
() Equipment has been altered	_____	_____
() Change of location and/or ownership	_____	_____

9 NAME OF PRIOR OWNER AS IN (1) ABOVE, AND PRIOR AIR POLLUTION CONTROL PERMIT NUMBER, IF ANY:
(Name) _____ (Permit Number) _____

10 TYPE OR PRINT NAME AND TITLE OF OWNER OR AUTHORIZED MEMBER OF FIRM:
(Name) **George N. Krauss** (Title) **Plant Manager**
(Signature) *George N. Krauss* (Date) **4/24/84** (Phone No.) **313-398-1600**

11. DISPOSITION OF APPLICATION:

Permit to install approved and issued on _____

Permit to operate approved and issued _____

Signature _____

Signature _____

VOID
AUG 8 1984

MDNR
USE ONLY

AIR POLLUTION CONTROL COMMISSION

**AIR QUALITY DIVISION
MICHIGAN DEPARTMENT OF NATURAL RESOURCES**

APPLICATION INSTRUCTIONS

Submit this form in triplicate; complete application requires specifications and drawings in duplicate. An application is required for basic processing equipment as well as air pollution control equipment. Basic equipment includes any article, machine, equipment or other contrivance, the use of which may cause the issuance of air contaminants. Air pollution control equipment includes any article, machine, equipment or other contrivance, the use of which may eliminate or reduce or control the issuance of air contaminants. One application will suffice for an interrelated process. This application must be signed by the owner or authorized member of firm. Please attach the following:

1. Equipment Location Drawings - Submit drawings showing:
 - a. Plan view of owner's property to boundary lines; include outline and height of all structures.
 - b. Locate and identify proposed equipment on property line.
 - c. Locate and identify all adjacent properties and all structures within 150 feet of proposed equipment showing outlines and heights.
 - d. Indicate north direction on drawing.
2. Equipment Specification - State make, model, size and type, etc. of proposed equipment and all major accessory equipment.
3. Process or Use Specification - Attach a complete written description of each process covered by this permit application. Explain clearly and in detail each process stage by including the nature, quantity, concentration, particle size, pressure, temperature, etc. of materials which may be discharged to the atmosphere. Provide sufficient control method detail to show the extent and efficiency of air pollution control devices.
4. Operating Schedule - Specify proposed equipment operating time in hours per day and days per week.
5. Process Weight - Detail type and feed rate in pounds per hour or similar measure for each process material charged.
6. Fuels and Firing Devices - Indicate for gaseous fuels: type and cubic feet per hour, for fuel oil: grade and gallons per hour, sulfur content, and specify temperature to which oil is preheated; for solid fuels: type, ultimate analysis and pounds per hour, indicate for firing device: make, model, size, type, number of devices and capacity range of each device (from minimum to maximum).
7. Flow Diagram - For continuous processes, show the flow materials either on a separate flow diagram or on the drawings accompanying the application.
8. Drawings of Equipment - Supply an assembly drawing, dimensioned to scale, in plan, elevation and as many sections as are needed to show, clearly, equipment design and operation and the means for controlling air contaminants. Structural design calculations and details are not required. When installing standard commercial equipment, the manufacturer's scale describing the equipment may be submitted in lieu of the parts of Item 8 that it covers. The following must be shown:
 - a. Size and shape of the equipment; exterior and interior dimensions and features and materials of construction.
 - b. Locations, sizes and shape details of materials handling equipment and all features which may affect the production, collection, conveying or control of air contaminants.
 - c. Horsepower rating of driving motors.
 - d. Additional information may be required.
 - e. Indicate where in the system provision is made for source testing.
9. A permit application should pertain to an individual unit of equipment or to an operation or to a series of related operations within a process which are scheduled for simultaneous installation or alteration.

After authority to construct, install or alter is granted for any equipment, deviations from the approved plans and application information required are not permissible without first securing written approval.

Further information or clarification concerning permits can be obtained from the Air Quality Division
Phone: (517) 322-1333, (Lansing) Michigan Department of Natural Resources, P.O. Box 30028
Lansing, Michigan 48909

AQ-20 EQUIPMENT IDENTIFICATION

1983
Reporting
Form

ESTABLISHMENT
NUMBER

B3716

See Instructions
on Reverse Side

DNR USE ONLY - INITIALS, DATE

DO NOT DUPLICATE 1982 COMPUTER
PRINTED INFORMATION IF CORRECT.
FOR 1983, ENTER ONLY
CORRECTIONS OR ADDITIONS

DNR USE ONLY - ACTION
NEW CHANGE DELETE O.K.
1. ☐ 2. ☐ 4. ☐ ☐

ITEM 1	1982 DATA	1983 DATA
	The printed data is information currently in our files. Use the data as reference in filling out the form.	Report data for the 1983 calendar year. If this equipment was never operated during 1983 and is permanently discon- tinued then check this box <input type="checkbox"/>
ITEM 2 EQUIPMENT DESCRIPTION UNIT CODES FOR ITEMS G. AND H. 1 POUNDS 2 TONS 3 1000 CU. FT. 4 CU YARDS 5 GALLONS 6 1000 BARRELS 7 MILLION BTU	A. SOURCE IDENTIFICATION NUMBER	012
	B. EQUIPMENT NAME OR DESCRIPTION (AS YOU REFER TO IT)	Number Five Welder
	C. EQUIPMENT CODE (SEE TABLE VI)	0064
	D. TOTAL NUMBER OF IDENTICAL UNITS (IF OTHER THAN ONE, SEE INSTRUCTIONS)	001
	E. OPERATING SCHEDULE (YEARLY AVERAGE) HOURS/DAY DAYS/YEAR	124 HOURS/DAY 1242 DAYS/YEAR
	F. OPERATING SCHEDULE (PERCENT BY QUARTER) JAN-MAR APR-JUN JUL-SEP OCT-DEC % % % %	125% 125% 125% 125%
	G. RATED CAPACITY (PER HOUR) OR SIZE OF EACH UNIT AMOUNT UNIT CODE	000 0
	H. MATERIAL PROCESSED (PER YEAR) - SEE TABLE V TOTAL AMOUNT UNIT CODE	000000 0
	I. EMISSION CONTROL EQUIPMENT CODES (SEE TABLE IV)	000 000 000
	J. AVERAGE OVERALL PARTICULATE COLLECTION EFFICIENCY, IF KNOWN	000000%
K. AVERAGE PERCENT VOLATILE ORGANIC COMPOUND CONTENT (BY VOLUME) FOR COATING OPERATIONS ONLY (SEE TABLE V, EQUIP. CODES 1010-1018 AND 1045-1142)	000000%	
ITEM 3 FUEL USED TO OPERATE EQUIPMENT IN ITEM 2 DO NOT USE DECIMALS IN FUEL QUANTITIES	A. NATURAL GAS 1000 CUBIC FEET/YEAR	00000000 1000 CUBIC FEET/YEAR
	B. DISTILLATE OIL NO. 1 THRU NO. 4 1000 GALLONS/YEAR	00000000 1000 GALLONS/YEAR
	% SULFUR	000000%
	C. RESIDUAL OIL NO. 5 AND NO. 6 1000 GALLONS/YEAR	00000000 1000 GALLONS/YEAR
	% SULFUR	000000%
	D. WOOD OR BARK TONS/YEAR	00000000 TONS/YEAR
	E. COAL OR COKE TONS/YEAR	00000000 TONS/YEAR
	% SULFUR	000000%
	% ASH	000000%
	F. OTHER (SPECIFY TYPE) AMOUNT (Specify Units)	00000000
% SULFUR	000000%	
% ASH	000000%	

**1983
Reporting
Form**

DNR USE ONLY - INITIALS, DATE

DO NOT DUPLICATE 1982 COMPUTER
PRINTED INFORMATION IF CORRECT.
FOR 1983, ENTER ONLY
CORRECTIONS OR ADDITIONS.

ESTABLISHMENT
NUMBER

B3716

DNR USE ONLY - ACTION

NEW CHANGE DELETE O.K.

1. ☐ 2. ☐ 4. ☐ ☐

PR5609 8/83

AQ-20 EQUIPMENT IDENTIFICATION

353-84

1983
Reporting
Form

ESTABLISHMENT
NUMBER

33716

See Instructions
on Reverse Side

DNR USE ONLY - INITIALS, DATE

DO NOT DUPLICATE 1982 COMPUTER
PRINTED INFORMATION IF CORRECT
FOR 1983. ENTER ONLY
CORRECTIONS OR ADDITIONS.

DNR USE ONLY - ACTION

NEW CHANGE DELETE O.K.

1. ☐ 2. ☐ 4. ☐ ☐

ITEM	1982 DATA	1983 DATA
1	The printed data is information currently in our files. Use the data as reference in filling out the form.	Report data for the 1983 calendar year. If this equipment was never operated during 1983 and is permanently discon- tinued then check this box ---- <input type="checkbox"/>
ITEM 2 EQUIPMENT DESCRIPTION	<p>A. SOURCE IDENTIFICATION NUMBER</p> <p>B. EQUIPMENT NAME OR DESCRIPTION (AS YOU REFER TO IT)</p> <p>C. EQUIPMENT CODE (SEE TABLE V)</p> <p>D. TOTAL NUMBER OF IDENTICAL UNITS (IF OTHER THAN ONE, SEE INSTRUCTIONS)</p> <p>E. OPERATING SCHEDULE (YEARLY AVERAGE) HOURS/DAY DAYS/YEAR</p> <p>F. OPERATING SCHEDULE (PERCENT BY QUARTER) JAN-MAR APR-JUN JUL-SEP OCT-DEC % % % %</p> <p>G. RATED CAPACITY (PER HOUR) OR SIZE OF EACH UNIT AMOUNT UNIT CODE</p> <p>H. MATERIAL PROCESSED (PER YEAR) - SEE TABLE V TOTAL AMOUNT UNIT CODE</p> <p>I. EMISSION CONTROL EQUIPMENT CODES (SEE TABLE IV)</p> <p>J. AVERAGE OVERALL PARTICULATE COLLECTION EFFICIENCY, IF KNOWN</p> <p>K. AVERAGE PERCENT VOLATILE ORGANIC COMPOUND CONTENT (BY VOLUME) FOR COATING OPERATIONS ONLY (SEE TABLE V, EQUIP. CODES 1010-1018 AND 1045-1142)</p>	<p style="text-align: center;">014</p> <p style="text-align: center;">LIME HAPPER</p> <p style="text-align: center;">0426</p> <p style="text-align: center;">001</p> <p style="text-align: center;">24 HOURS/DAY 365 DAYS/YEAR</p> <p style="text-align: center;">JAN-MAR APR-JUN JUL-SEP OCT-DEC 25% 25% 25% 25%</p> <p style="text-align: center;">AMOUNT UNIT CODE 500.00 1</p> <p style="text-align: center;">TOTAL AMOUNT UNIT CODE 400.0 2</p> <p style="text-align: center;">10 00 00</p> <p style="text-align: center;">. . . %</p> <p style="text-align: center;">0.00 %</p>
ITEM 3 FUEL USED TO OPERATE EQUIPMENT IN ITEM 2	<p>A. NATURAL GAS 1000 CUBIC FEET/YEAR</p> <p>B. DISTILLATE OIL NO. 1 THRU NO. 4 1000 GALLONS/YEAR</p> <p style="text-align: right;">% SULFUR</p> <p>C. RESIDUAL OIL NO. 5 AND NO. 6 1000 GALLONS/YEAR</p> <p style="text-align: right;">% SULFUR</p> <p>D. WOOD OR BARK TONS/YEAR</p> <p>E. COAL OR COKE TONS/YEAR</p> <p style="text-align: right;">%SULFUR</p> <p style="text-align: right;">%ASH</p> <p>F. OTHER (SPECIFY TYPE) AMOUNT (Specify Units)</p> <p style="text-align: right;">% SULFUR</p> <p style="text-align: right;">% ASH</p>	<p style="text-align: center;">0 1000 CUBIC FEET/YEAR</p> <p style="text-align: center;">0 1000 GALLONS/YEAR</p> <p style="text-align: center;">0.00 %</p> <p style="text-align: center;">0 1000 GALLONS/YEAR</p> <p style="text-align: center;">0.00 %</p> <p style="text-align: center;">0 TONS/YEAR</p> <p style="text-align: center;">0 TONS/YEAR</p> <p style="text-align: center;">0.00 %</p> <p style="text-align: center;">00.00 %</p> <p style="text-align: center;">0 TONS/YEAR</p> <p style="text-align: center;">0.00 %</p> <p style="text-align: center;">00.00 %</p>

DEPARTMENT OF NATURAL RESOURCES
AIR QUALITY DIVISION
PERMIT ACTIVITY REPORT

TO: <u>Tom Maki</u>	FROM: <u>Cheruman Shah</u>	APPLICATION NO. <u>351-84</u>
ESTABLISHMENT <u>Republic Steel Corp.</u>	COUNTY <u>63</u>	ESTABLISHMENT NO. <u>B33716</u> NEW
EQUIPMENT LOCATION <u>965 Wanda Ave, Ferrisdale</u>	DISTRICT <u>3 Pontiac</u>	DATE MM DD YY <u>5/1/84</u>
REGARDING: <input checked="" type="checkbox"/> PERMIT TO INSTALL WITH SITE EVALUATION <input type="checkbox"/> TAX EXEMPTION		PLEASE, REPLY BY <u>5/18/84</u>
<input type="checkbox"/> PERMIT TO OPERATE <input type="checkbox"/> OTHER _____		

PERMIT ENGINEER COMMENTS:

COMPLIANCE BRANCH REMARKS:

I saw these welders when I did an annual. That was when I became aware that they didn't have permits. I never asked about their age. They have not been modified since installation. No permit required - Please void their request. Thanks.

COMPLIANCE BRANCH RECOMMENDATIONS:

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> INSTALLATION AND SITE APPROVAL | <input type="checkbox"/> OPERATING APPROVAL | <input type="checkbox"/> DENIAL AS EXPLAINED |
| <input type="checkbox"/> TAX EXEMPTION APPROVAL | <input type="checkbox"/> SPECIAL CONDITIONS NOTED ABOVE | |

NAME Judi Lopez DATE 5-8-84 DISTRICT ENGINEER INITIALS mmf

DISTRIBUTION: White — Division Office; Canary — Permit File; Pink — District Office; Goldenrod — Temporary Permit Copy

DEPARTMENT OF NATURAL RESOURCES
AIR QUALITY DIVISION
PERMIT ACTIVITY REPORT

NOV 2 - 1984

TO: <i>Permit Section Jerry Avery</i>		FROM: <i>District #3- David Yarnochko</i>	PERMIT SECTION: <i>11</i>	APPLICATION NO. <i>353-84</i>
ESTABLISHMENT <i>Republic Steel Corp</i>		COUNTY <i>Oakland 63</i>	ESTABLISHMENT NO. <i>B-3716</i>	NEW
EQUIPMENT LOCATION <i>555 Wanda Ave, Ferndale, MI</i>		DISTRICT <i>Northville 3</i>	DATE MM DD YY <i>10 01 84</i>	
REGARDING:			PLEASE REPLY BY	
<input type="checkbox"/> PERMIT TO INSTALL WITH SITE EVALUATION <input type="checkbox"/> TAX EXEMPTION			<input checked="" type="checkbox"/> PERMIT TO OPERATE <input type="checkbox"/> OTHER	

PERMIT ENGINEER COMMENTS:

COMPLIANCE BRANCH REMARKS:

Recommend issuance of a permit to operate for the lime silo with a baghouse emission control system at Republic Steel Corp. This equipment was inspected on 10/18/84 as part of a routine annual inspection at the plant. During this inspection the baghouse pulse jet system was operating properly and there was no evidence of lime dust emissions on or near the baghouse. Recommend the special condition 16 be deleted from the P/O because testing the particulate emissions from this silo baghouse ~~is~~ not necessary.

made a decision of

On June 30, 1984 Republic Steel Corp was ~~merged~~ *merged* LTV Steel Company by merger. I have informed the company in writing of the need to notify ADD new ownership and request a reissuance of this permit. This activity report should be considered as a determination of acceptable compliance status and district staff approval ~~of~~ reissuance of this permit.

They notified Tom. "reissuance" is not necessary.

this info from Anne P. via Telecon 1-11-85

COMPLIANCE BRANCH RECOMMENDATIONS:

- | | | |
|---|---|--|
| <input type="checkbox"/> INSTALLATION AND SITE APPROVAL | <input checked="" type="checkbox"/> OPERATING APPROVAL | <input type="checkbox"/> DENIAL AS EXPLAINED |
| <input type="checkbox"/> TAX EXEMPTION APPROVAL | <input type="checkbox"/> SPECIAL CONDITIONS NOTED ABOVE | |

NAME *David Yarnochko* DATE *10/31/84* DISTRICT ENGINEER INITIALS *AYC*

DISTRIBUTION: White — Division Office; Canary — Permit File; Pink — District Office; Goldenrod — Temporary Permit Copy

STATE OF MICHIGAN



JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING
BOX 30028
LANSING, MI 48909

RONALD O. SKOOG, Director

NATURAL RESOURCES COMMISSION

THOMAS J. ANDERSON
E. R. CAPOLLO
MARLENE J. FLUHAITY
STEPHEN F. MONSMA
O. STEWART MYERS
RAYMOND POUPORE
HARRY H. WHITELEY

Mr. George N. Krauss, Plant Manager
Republic Steel Corporation
Tubular Products Group
965 Wanda Avenue
Ferndale, Michigan 48220

AUG 8 1984

Dear Mr. Krauss:

This letter is in reference to your Permit to Install application for a lime storage bin with a baghouse control, located at 965 Wanda Avenue, Ferndale, Michigan. This application, identified as No. 353-84, has been evaluated and approved by the Air Quality Division, pursuant to the delegation of authority from the Michigan Air Pollution Control Commission.

This approval is based upon and subject to compliance with all administrative rules of the Commission and conditions stipulated in the attached supplement. Please review these conditions thoroughly so that you may plan for and take the necessary actions to ensure compliance with all of these conditions. Also note that Condition No. 1 requires you to apply, in writing, for a permit to operate within 30 days after completion of construction.

You are advised that contaminants discharged to the surface waters and/or groundwaters; materials disposed of on land; hazardous waste storage, treatment, and disposal; and resource recovery facilities must be approved by other divisions of the Environmental Protection Bureau, Department of Natural Resources. Additionally, your plant environment must be in compliance with all applicable requirements of the Departments of Public Health and Labor.

Approval of this permit does not constitute a waiver by the State of Michigan of its right to bring appropriate legal action against the applicant for failing to obtain the required permit prior to the commencement of construction.

Additionally, applications Nos. 351-84 and 352-84 are voided because the equipment was installed prior to August 15, 1967, and is not subject to the permit requirements.

Thank you for your cooperation. Please contact me if you have any questions regarding this permit.

Sincerely,

Dhruvan Shah, Engineer
Permit Section
Air Quality Division
517-322-1333

DS:ckn
Enclosure
cc: Tom Maki



TUFF-KOTE, INC. 13650 EAST TEN MILE RD. WARREN, MICHIGAN 48089 • 313/776-5000

CABLE: TUFFY, WARREN, MICH.

Air Pollution Control
SEP 26 1979

September 24, 1979

Department of Natural Resources
Air Quality Division
P. O. Box 30028
Lansing, Michigan 48909

Attention: Mr. John Trout

Subject: Mr. Khuong Van Nguyen's Letter of August 15, 1979
Permits To Install # 517-79 & 518-79

Dear Mr. Trout:

As per our telephone conversation of today's date and the above subject letter, I have listed on the attached sheet the required information.

If you need any additional information, please do not hesitate to contact me.

Yours truly,

TUFF-KOTE, INC.

David Maysilles
Plant Manager

/v1

att: List
Waiver for Permit Action

PERMITS TO INSTALL

1. Operating schedule: Regular Shift, approximately 8 hours per day, 5 days a week, 52 weeks a year.

2. Asbestos - 2%
Solvent - 15%
Limestone - 65%
Asphalt - 18%

3. Density of the finished product is 1.66; 9,400 gallons per day (approximately).

4. Exhaust Stack information:

Sound Deadener	-	21" diameter stack
Warehouse	-	22" " "

Code: stacks to be 1 & 1/2 times the building height.

22' Deadener stacks	33' Warehouse Stacks
517-79	518-79

5. Fabric Filter:

Section 6123 EPA Regulations, Woven Dacron - 8.56 ounces per square yard in weight. Supplier: United Fabric #2560, Griffin Engineering Company in Balwinsville, New York.

Air Flow Permeability of 30 cubic feet a minute per square foot or less.

Pressure drop across the collector not more than 4" water gate.

Disposal of dust from dust collector will be collected in steel drums. Discharge will be protected from leakage with a canvas hood.

6. The material will be re-used or disposed of at a permissible waste disposal.

/v1

9-24-79

PERMIT EVALUATION SHEET

Application No. 353-84

WQD notified? Yes ☐ No ☒

E.I. No. B3716

RRD notified? Yes ☐ No ☒

Const. Commenced? Yes (Reg. Egr. notified) ☒ No ☐ Oversight

Other _____

NSPS? Yes (Coord. notified) ☒ No ☐

NESHAPS? Yes (Coord. notified) ☒ No ☐

Source Description (Installation date 1-71) (Covered by Permit No. 353-84)

Lime storage bin - 28 ton capacity -
slurry mixing tank below -
storage bin is filled once a month

Control Description Stg. bin is controlled by a
baghouse on the top of the bin
net cloth area 85 ft²
air flow 650 cfm
A/C: 7.64 fpm

Attainment Status	TSP	SO ₂	CO	O ₃
Attainment	A	A	A	
Non Attainment				A

P - Primary
A - All Standards
* Close to Non attainment
S - Secondary
U - Unclassified

	Plant Totals (TPY)			Equipment covered by this permit					
	Potential	Δ Pot. (5 years)	Allowed) 12-21-76	Uncon. PPH	Expected PPH TPY		Allowable PPH TPY		Limit
TSP					<0.3	<1.28	0.3	1.28	0.1/1000 lb-a
SO ₂									
CO									
NO _x									
VOC									

Basis for Recommendation; Comments baghouse is a good control
for this type of opn. - eff. > 99.9%, TSP emi.
should be below 0.1/1000

EOP? Yes ☒ No ☐

Emissions Logged? Yes ☐ No ☐

PSD? Yes ☒ No ☐

PCDS? Yes ☒ No ☐

Reviewed by: Shuman Sheth Date: 5-25-84

Production Rate ☐ Confidential Normal _____ Maximum _____

Normal Operating Schedule ☐ Confidential Hours/Day 24 Days/Wk 7 Wks/Year 52

Maximum Allowable Operating Schedule Hours/Day 24 Days/Wk 7 Wks/Yr 52

Fuel type _____ Usage _____ Heat Content NA % Sulfur _____ % Ash _____

Collector Bypass Yes ☒ No Reasons - Conditions _____

Process/Control Waste and Disposal _____

reprocessed

Stack, Building & Dispersion Paramaters

Bldg. 25' ϕ 30" x 30"
st. ht. 32'

Dispersion Yes ☒ No Comments:

Emission Calculations

allowed $emi = 650 \times 0.075 \times 60 \times 0.1 \times 10^{-3}$
 $= 0.3 \text{ lbs/hr}$
 $= 1.28 \text{ tpy}$

EPA ID# MID 005 515 705

SITE NAME REPUBLIC STEEL CORP. STEEL & TUBES DIV.

NORLING FACTOR 13 (>15 PTS.=HIGH MITRE POTENTIAL)

WASTE TYPE

WASTE QUANTITY

(1 ton = $\frac{1}{2}$ cu.yd.=13.5 cu.ft.=4 drums = 220 gals.)

PESTICIDES (5)
HEAVY METALS (5)
PCB's (5)
ORGANICS (4)
SOLVENTS (4)
INORGANICS (3)
ACIDS (3)
BASES (3)
MIXED MUNI-WASTES (2)
UNKNOWN (1)

TONS	CU.YDS.	CU. FT.	DRUMS	GALLONS	PTS.
>875	>437	>11,799	>3500	>192,500	(5)
875	437	11,799	3500	192,500	
251	126	3,402	1001	55,055	(4)
250	125	3,375	1000	55,000	
163	82	2,214	651	35,805	(3)
162	81	2,187	650	35,750	
76	38	1,026	301	16,555	(2)
75	37	999	300	16,500	
21	11	297	81	4,455	(1)
<20	<10	<270	<80	<4,400	(0)

FACILITY TYPE

POPULATION

PILES (5)
DRUMS BELOW GROUND (4) 10,000 or more (5)
DRUMS ABOVE GROUND (3) 3,000 - 9,999 (4)
SURFACE IMPOUNDMENTS (3) 1,000 - 2,999 (3)
TANKS (3) 101 - 999 (2)
LANDFILLS (2) 1 - 100 (1)
LAND TREATMENT (2)
UNDERGROUND INJECTION (1)

___ NOT A HAZARDOUS WASTE SITE

___ INFORMATION MISSING

COMMENTS: _____

REVIEWER: JLO

"ACTIVE" SITE FORM

1	SITE	-	R	E	P	U	B	L	I	C	S	T	E	E	I	C	O	R	P
2	WSTS	-	M	I	1	1	0	3											
3	COUNTY	-	O	A	K	I	A	N	D										
4	CITY	-	F	E	R	N	D	A	I	E									
5	EPAID	-	M	I	D	0	0	5	5	1	5	7	0	5					
6	TWP	-																	
7	RNG	-																	
8	SEC	-																	
* 9	WPACT	-	T																
10	WPSUBD	-			/			/											
11	WPAPPD	-			/			/											
12	WPTL	-																	
13	PRESCORE	-			.														
14	PROSCORE	-			.														
*15	SIACT	-	F																
16	INSPECT	-			/			/											
17	SISUBD	-			/			/											
18	SIAPPD	-			/			/											
19	SIREPTL	-																	
20	SITL	-																	
21	SSO	-																	
22	SAM	-																	
23	TMA	-																	
24	TMB	-																	
25	TMC	-																	
26	TMD	-																	
27	TME	-																	
*28	SAMPLE	-	E																
29	MW	-																	
30	RW	-																	
31	SW	-																	
32	SS	-																	
33	WASTE	-																	
34	AIR	-																	
*35	OTHER	-	E																
*36	AAR	-	E																
*37	GTACT	-	E																
*38	DRILL	-	E																
39	DDATE	-			/			/											
40	WELL	-																	
*41	GEOPHYS	-	F																
42	GDATE	-			/			/											
43	GTTL	-																	
44	GPHTL	-																	
45	GTTMA	-																	
46	GTTMB	-																	
*47	HRSACT	-	F																
48	QCDATE	-			/			/											
49	HRSSUBD	-			/			/											
50	HRSSAPPD	-			/			/											
51	SCORE	-			.														
52	HRSTL	-																	
*53	REVACT	-	F																
54	RDATE	-			/			/											
55	RSCORE	-			.														
*56	FSI	-	E																
*57	ESI	-	E																
*58	SSERV	-	E																
*59	PA	-	E																

CHECK BOX IF NEW SITE
 CHECK BOX IF UPDATE
 CHECK BOX WHEN COMPUTER ENTRY IS COMPLETED

<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Ref # #7
Site Name Republic Steel Corp.
MID # 005515705

Site Name Republic Steel Corp. Steel Tubes
County Wayne

CALL LOG

- 1) Verify Site Location and Size.
- 2) Verify # and size of each containment structure.
- 3) Is there existing exposure of people documented?
- 4) Is the site fenced? Is it secure?
- 5) If sampling was done, how were samples collected? i.e. random selective, surface grab, composite etc..
- 6) Has the fire marshal considered the site a fire hazard?
- 7) What type of companies used the site? (Origin of chemicals)

<u>DATE</u>	<u>AGENCY</u>	<u>PHONE NUMBER</u>	<u>PERSON CONTACTED</u>
-------------	---------------	---------------------	-------------------------

2-3	MDPH - Southfield	(313) 424-7187	Bill Carlson
Bill stated that the entire area is on a municipal water supply. - any use of private wells would more than likely not ^{be} for irrigation purposes.			

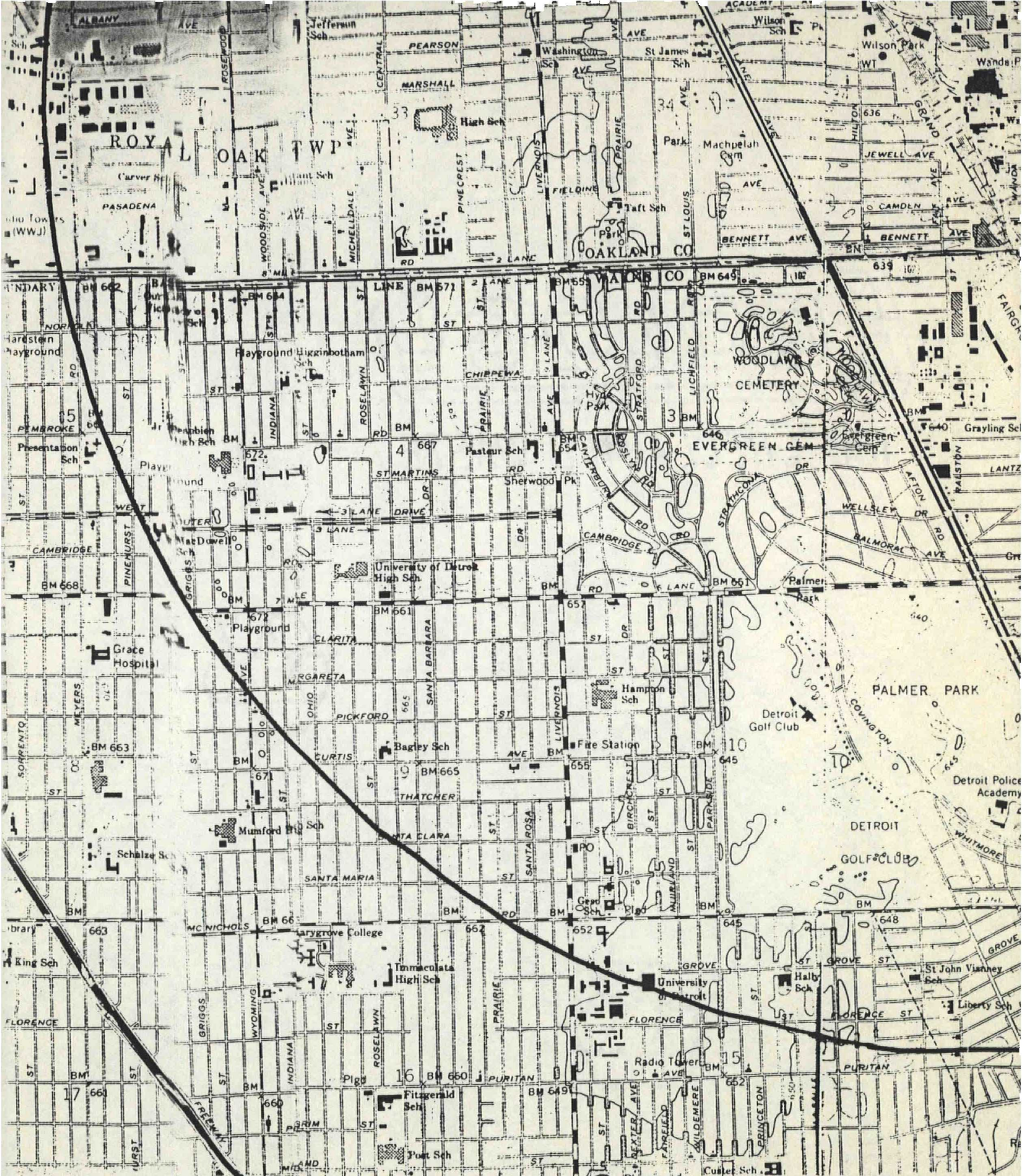
2-3	City of Detroit - Forestry Dept.		
- Stated that the pond in Palmer Park is not inhabited by fish, but is used for bathing by youths (Not set up for this purpose)			

2-16	Hazel Park Race Track	(313) 398-1003	
- Stated that well was no longer used for irrigation purposes - water supply from the City. - wasn't sure if well was still in operation for other uses.			

Prepared by: James A. Natican

Detroit

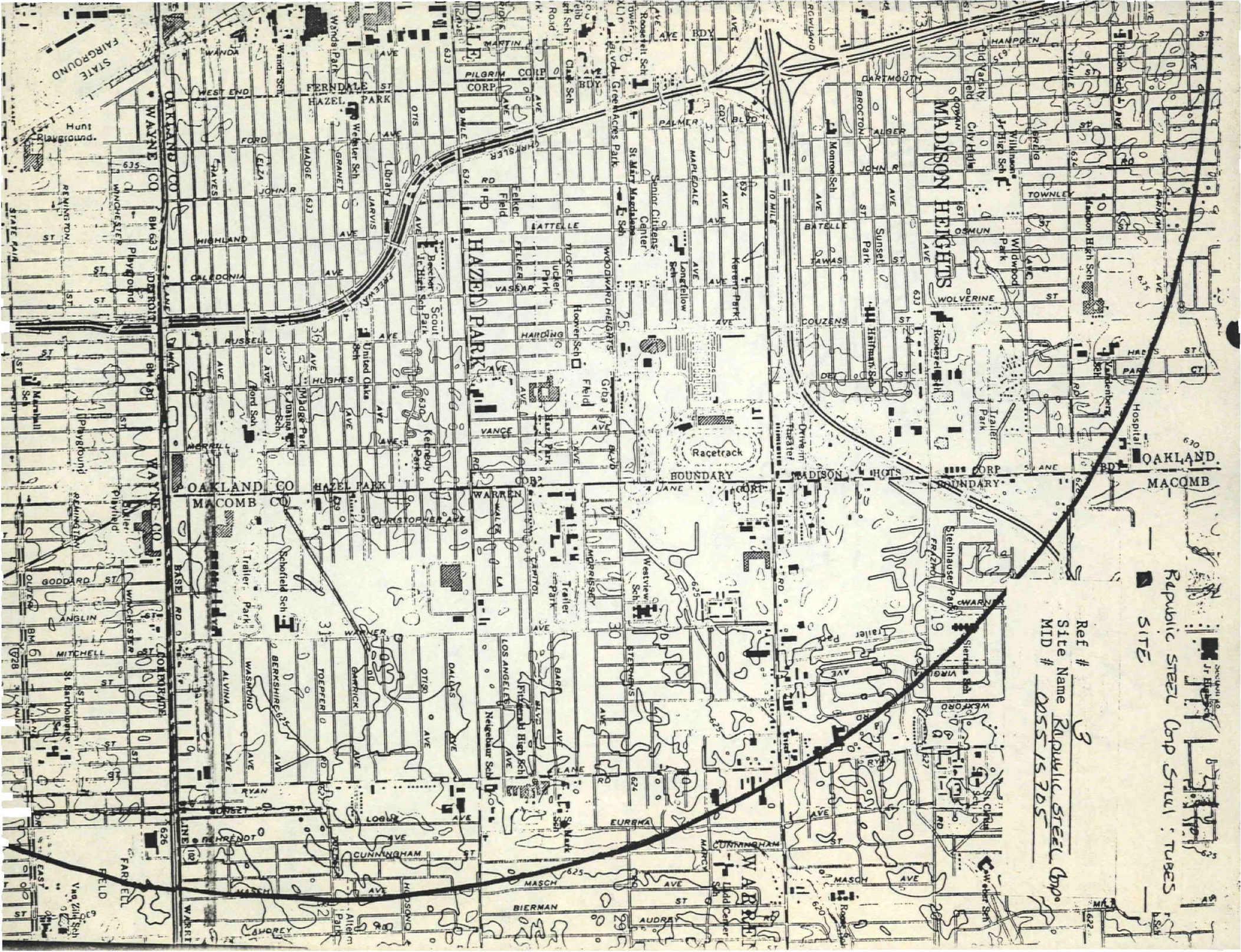
1A. Cost Center: FT 1305		FIT ZONE II CONTRACT Contract Number 68-01-7347 TECHNICAL DIRECTIVE DOCUMENT (TDD)			2. TDD Number: F 058803010	
1B. Account Number: FMI1103SA					2A. Amendment: <input type="checkbox"/> Administrative <input type="checkbox"/> Technical	
3A. Priority: <input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low		3B. Key EPA Contact: Name: D. JOSIF Phone: 312-886-0393				
4A. Estimate of Technical Hours: 50		4B. Subcontract:	4C. Estimate of Subcontract Cost:	5A. SSID Number:	5B. CERID Number: MID005515705	
5C. EPA Site Name: REPUBLIC STEEL CORP.-STEEL + TUBES D			5D. City/County/State: FERNDAL/EOAKLAND/MI			
6. Desired Report Format: <input type="checkbox"/> Formal Report <input type="checkbox"/> Standard Report <input checked="" type="checkbox"/> Other (Specify): <u>WORK PLAN</u> <input type="checkbox"/> Letter Report <input type="checkbox"/> Formal Briefing			7A. Activity Start Date: 03/14/88		7B. Estimated Completion Date: 03/14/89	
8A. Type of Activity: <input type="checkbox"/> PA <input type="checkbox"/> RCRA-PA <input type="checkbox"/> HRS Support <input type="checkbox"/> Enforcement Support <input type="checkbox"/> Training <input checked="" type="checkbox"/> SI <input type="checkbox"/> RCRA-SI <input type="checkbox"/> QA Support <input type="checkbox"/> Program Management <input type="checkbox"/> General Technical Assistance <input type="checkbox"/> ESI <input type="checkbox"/> Special Studies <input type="checkbox"/> Equipment Maintenance					8B. FIT/SCAP Goal: Will Deliverable Meet a Unit of the Goal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9. General Task Description: <u>PREPARE WORK PLAN FOR SITE INSPECTION</u> <u>ACTIVITIES AT THE REPUBLIC STEEL CORP.-STEEL + TUBES D</u> <u>SITE AND SUBMIT THE WORK PLAN TO ERB FOR APPROVAL.</u> <u>CONCURRENTLY, SUBMIT A COPY TO THE RESPECTIVE STATE</u> <u>AGENCY FOR ITS FILES.</u>						
10. Specific Elements: <u>SEE ATTACHED SHEET FOR SPECIFIC ELEMENTS.</u>					11. Interim Deadlines:	
12. Comments:						
13. Authorizing: <u>Thomas Hershcher</u> (Signature) <input checked="" type="checkbox"/> RPO <input type="checkbox"/> DPO <input type="checkbox"/> PO					14. Date: 3-21-88	
15. Received by: <u>James R. [Signature]</u> (Contractor FITOM Signature) <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Accepted with Exceptions (Attached) <input type="checkbox"/> Rejected					16. Date: 3/21/88	



Royal Oak Quad 7.5 Series

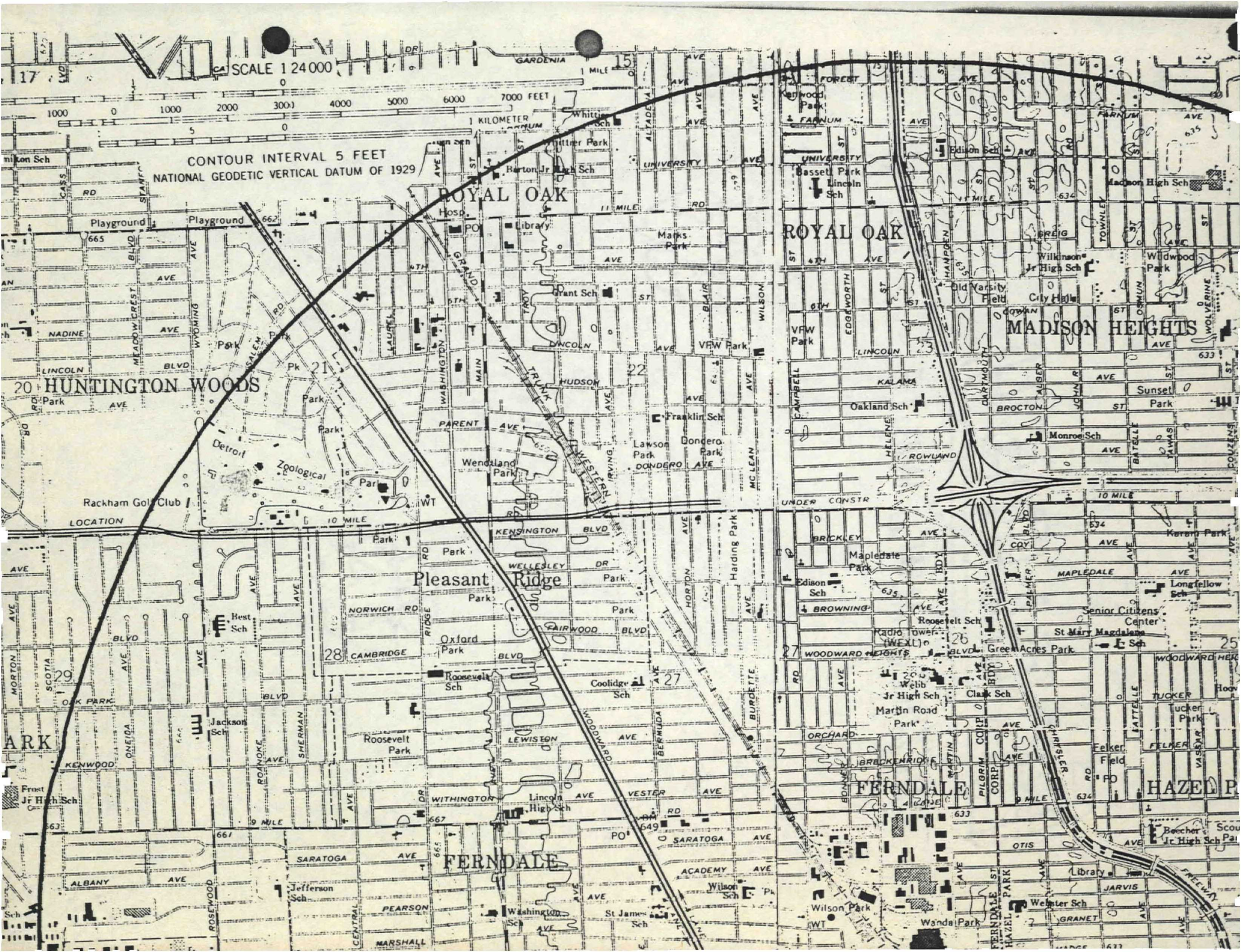
Population - 3 mile RAD

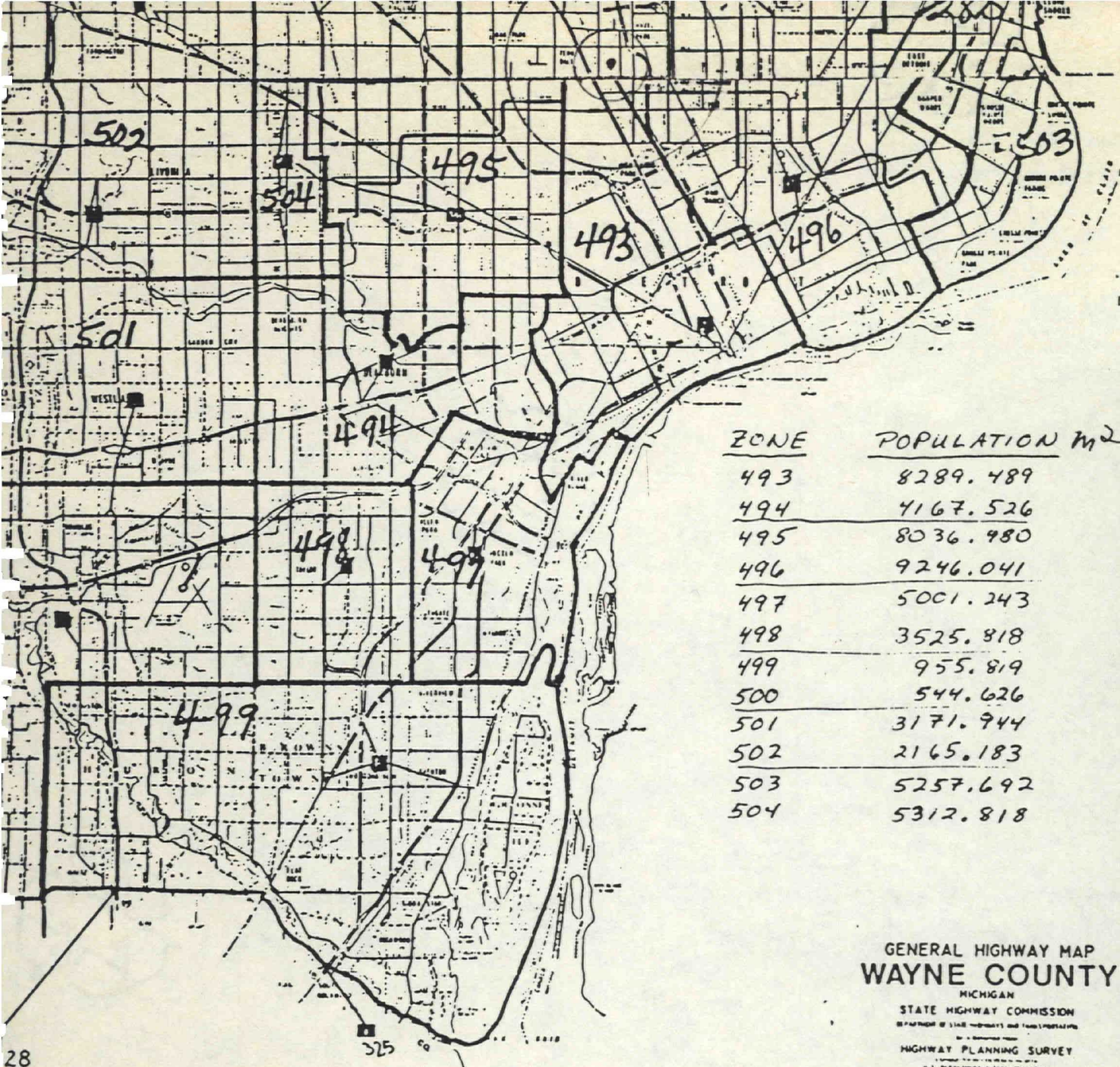
161 dwellings (3.8) = 611
 FERNDALE = 26,227
 HAZEL PARK = 20,914
 PLEASANT RIDGE = 3217
 ROYAL OAK = 14,178



Public Steel Corp Steel Tubes
SITE

Ref # 3
Site Name Republic Steel Corp
MID # 05515705

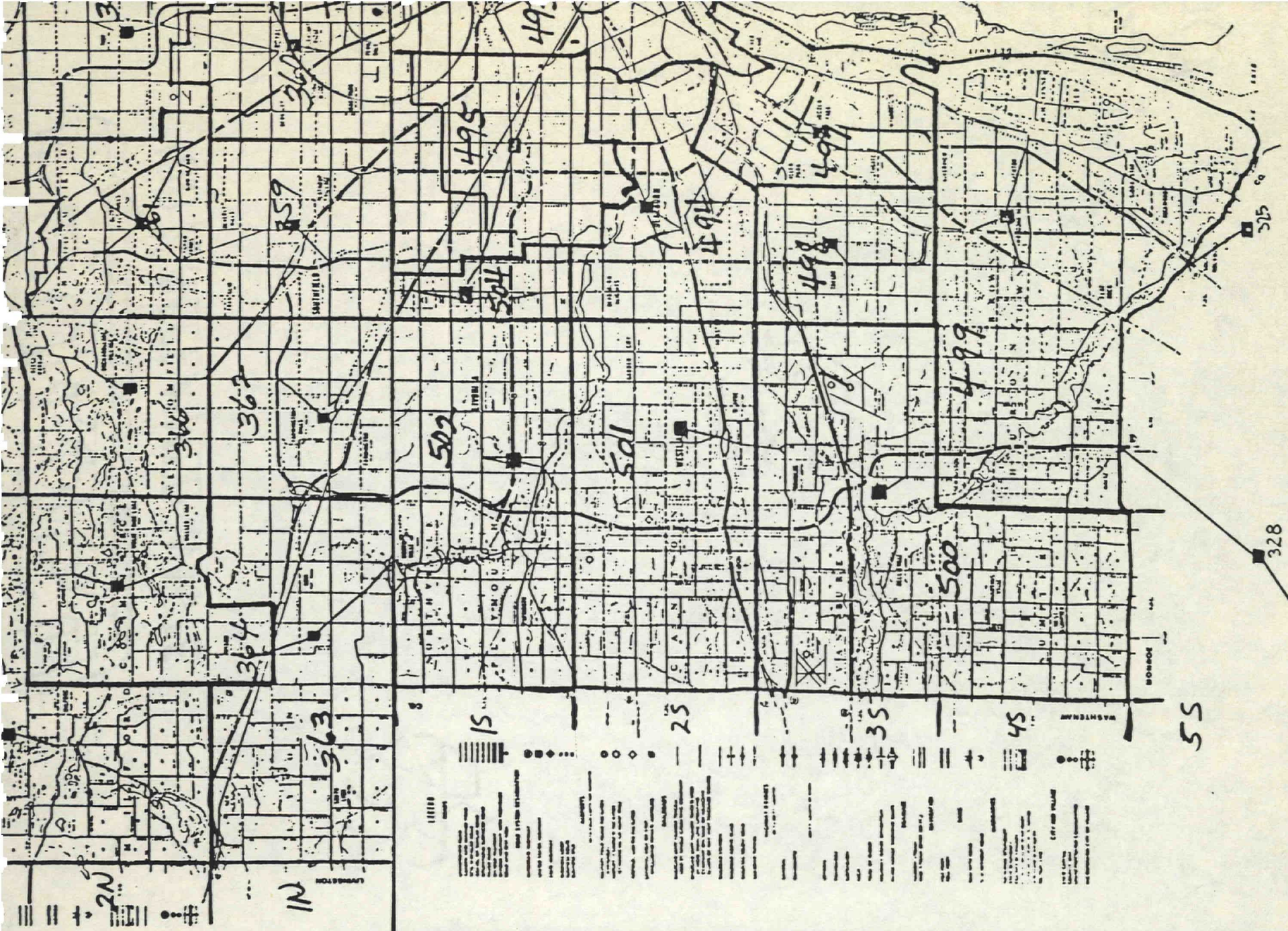




GENERAL HIGHWAY MAP
MACOMB COUNTY
 MICHIGAN
 STATE HIGHWAY COMMISSION
 DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION
 HIGHWAY PLANNING SURVEY
 U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

ZONE	POPULATION m^2
493	8289.489
494	4167.526
495	8036.980
496	9246.041
497	5001.243
498	3525.818
499	955.819
500	544.626
501	3171.944
502	2165.183
503	5257.692
504	5312.818

GENERAL HIGHWAY MAP
WAYNE COUNTY
 MICHIGAN
 STATE HIGHWAY COMMISSION
 DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION
 HIGHWAY PLANNING SURVEY
 U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION



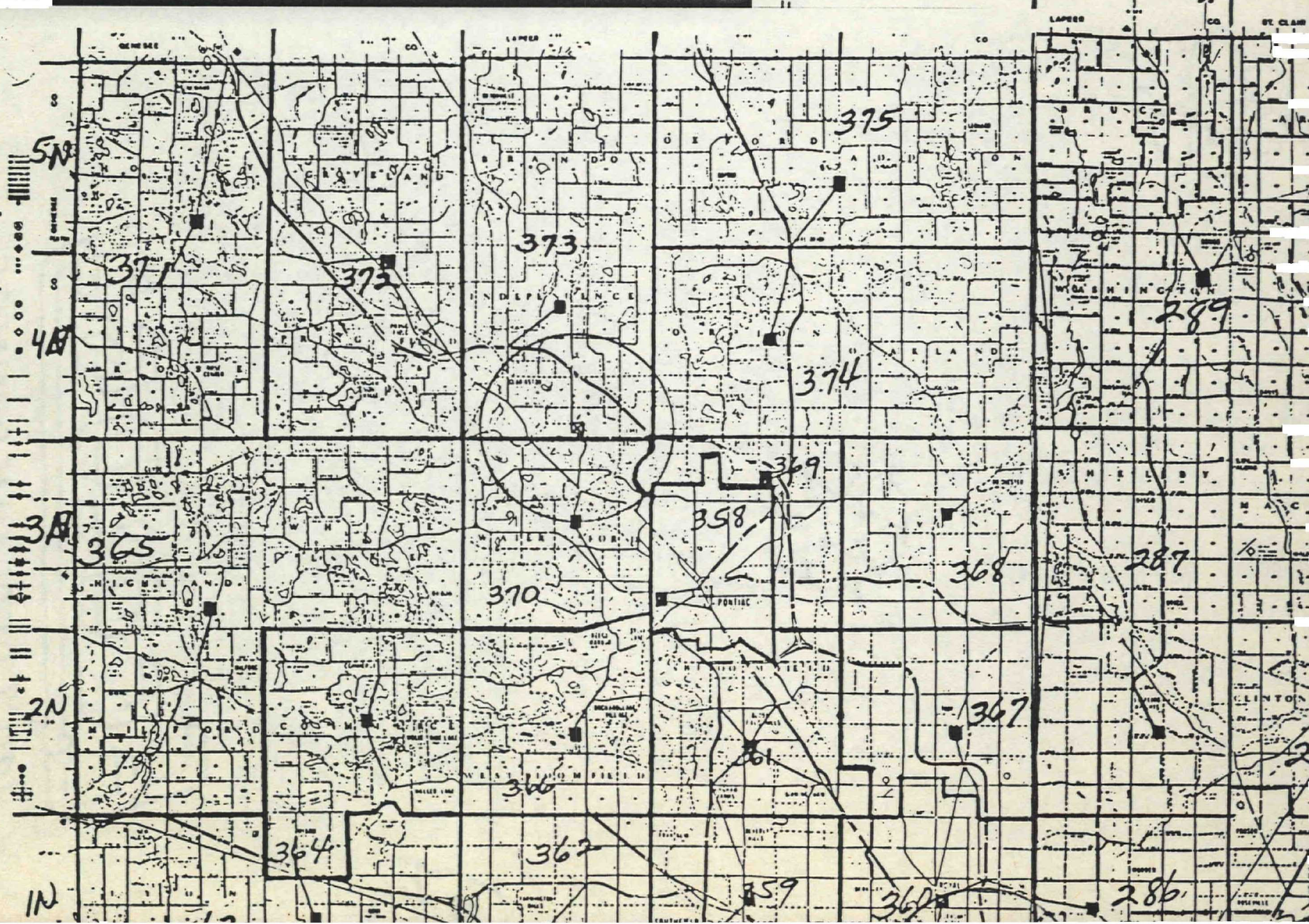
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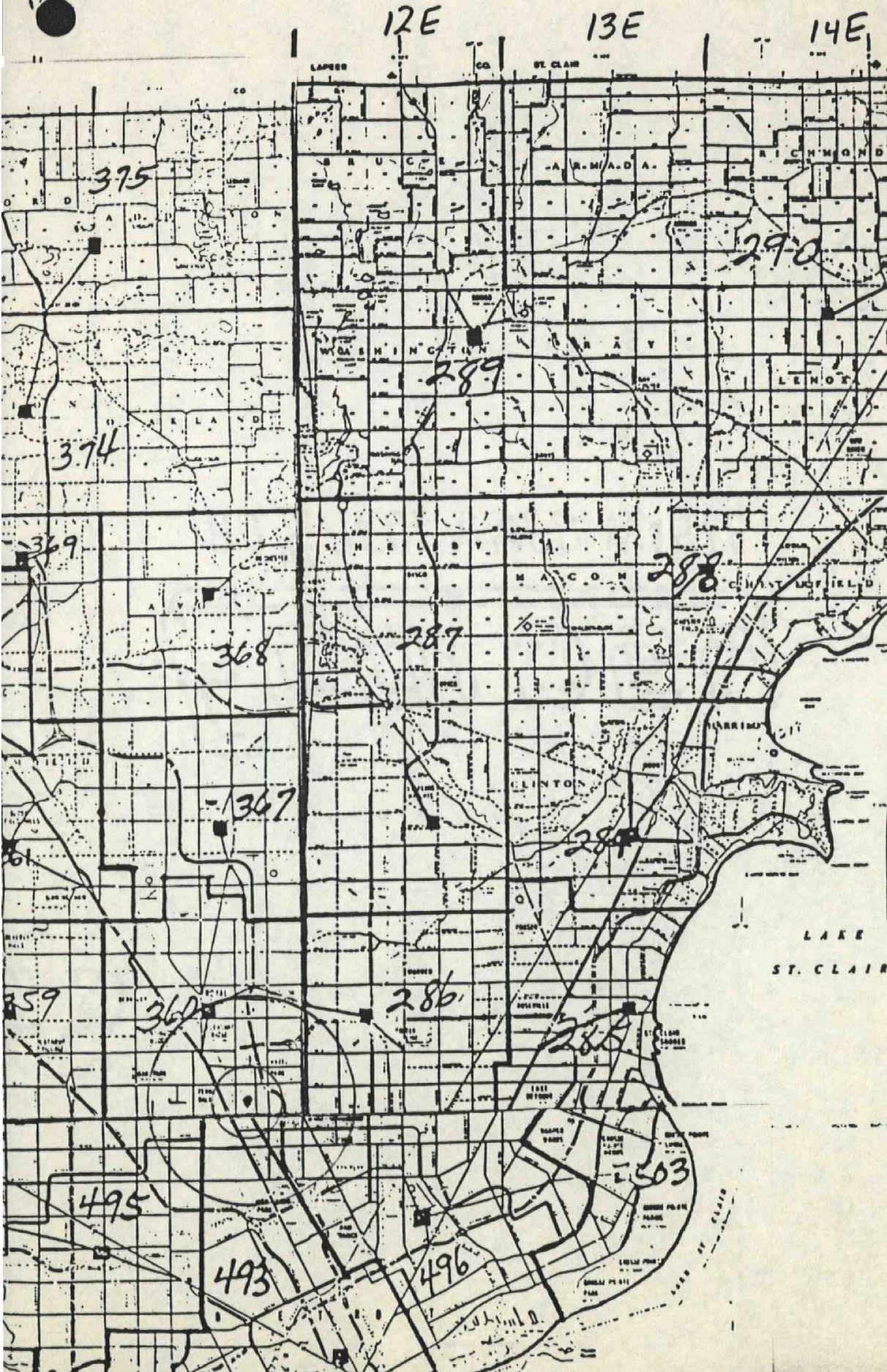
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12E

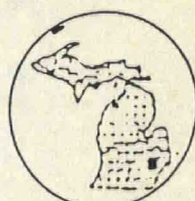
LEGEND

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100. CLASSIFIED AREA





ZONE	POPULATION
358	3835.750
359	2506.260
360	6174.316
361	1958.517
362	1918.833
363	598.592
364	708.419
365	445.591



366	1338.371
367	2033.394
368	1296.811
369	866.556
370	1952.529
371	177.411
372	177.271
373	443.757
374	430.014
375	219.942

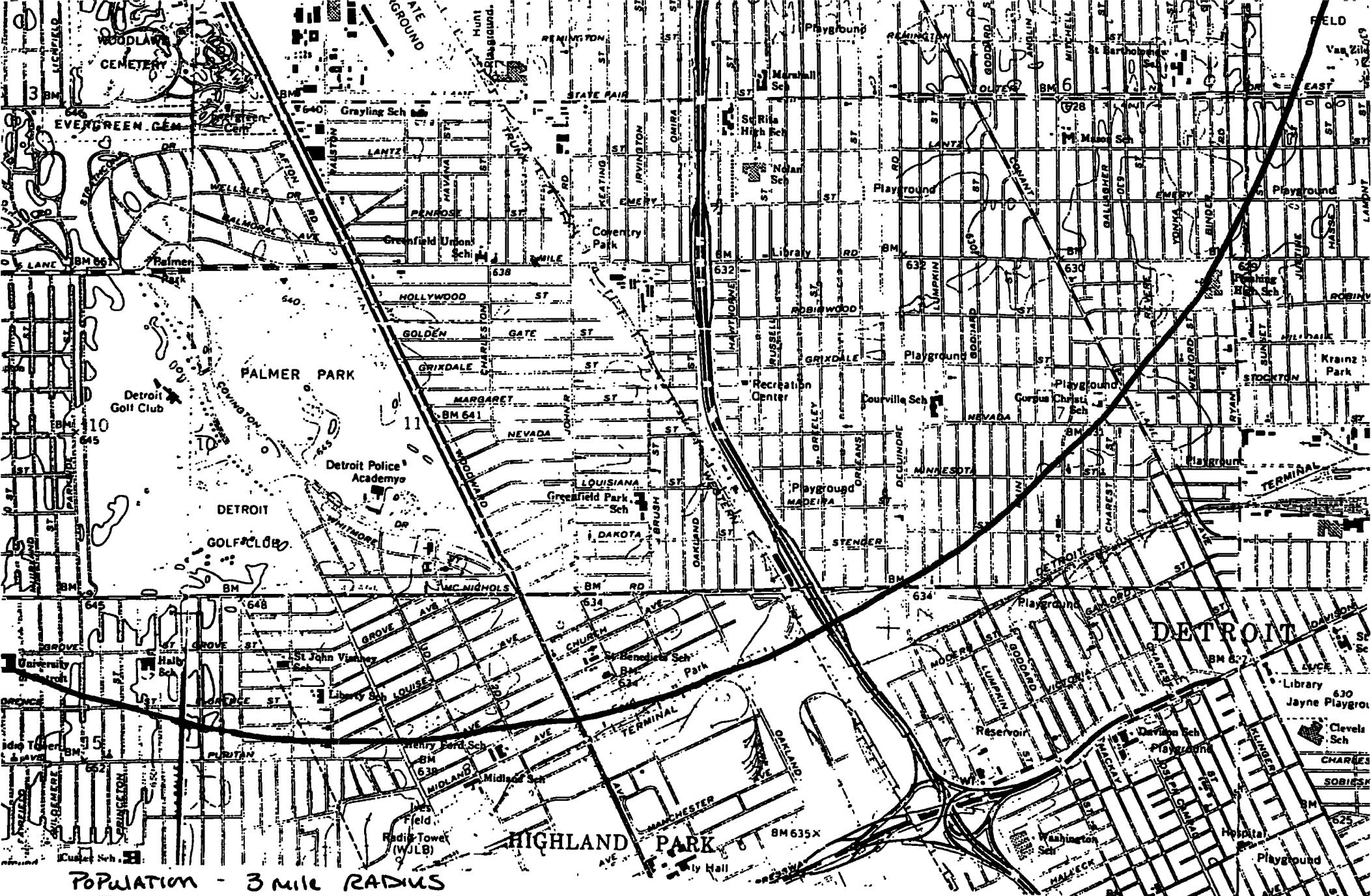
386 GENERAL HIGHWAY MAP OAKLAND COUNTY

MICHIGAN
STATE HIGHWAY COMMISSION
DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION
HIGHWAY PLANNING SURVEY
1964



GENERAL HIGHWAY MAP MACOMB COUNTY

MICHIGAN
STATE HIGHWAY COMMISSION
DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION
HIGHWAY PLANNING SURVEY
1964

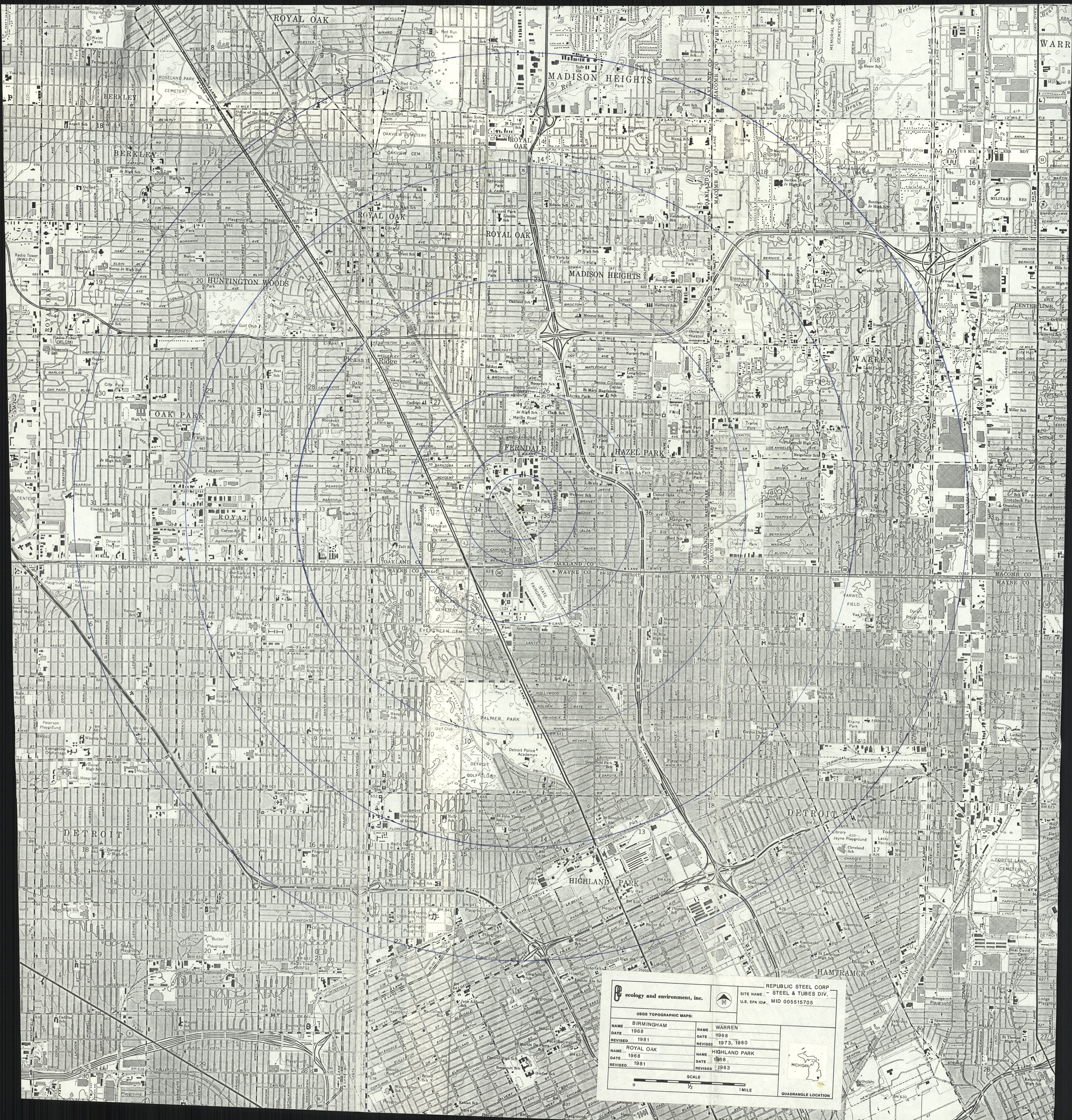


161 dwellings (3.8) = 611
 FERNDALE = 26,227
 HAZEL PARK = 20,914
 PLEASANT RIDGE = 3,217
 20% ROYAL OAK = 14,178

05% DETROIT 60,166
 25% OAK PARK 7,884
 35% MADISON HTS. 12,381
 10% WARREN 16,113
 20% HIGHLAND PARK 581
 30% HUNTINGTON 2001

TOTAL = 169,353

Highland Park



ecology and environment, inc.

REPUBLIC STEEL CORP
SITE NAME - STEEL & TUBES DIV.
U.S. EPA ID# MID 005515705

USGS TOPOGRAPHIC MAPS:	
NAME BIRMINGHAM	NAME WARREN
DATE 1968	DATE 1968
REVISED 1981	REVISED 1973, 1980
NAME ROYAL OAK	NAME HIGHLAND PARK
DATE 1968	DATE 1968
REVISED 1981	REVISED 1983

SCALE 0 1/2 1 MILE

MICHIGAN

QUADRANGLE LOCATION

IN 12 E

CS 11 E

15 12 E

① 116 ft 60 ft

(2) 132 ft 56 ft

③ 12 ft 12 ft

④ 100 ft 50 ft

OVA

Radmini

 σ_2

Monitors

Explosimeter

Thurs 9A Ticketron

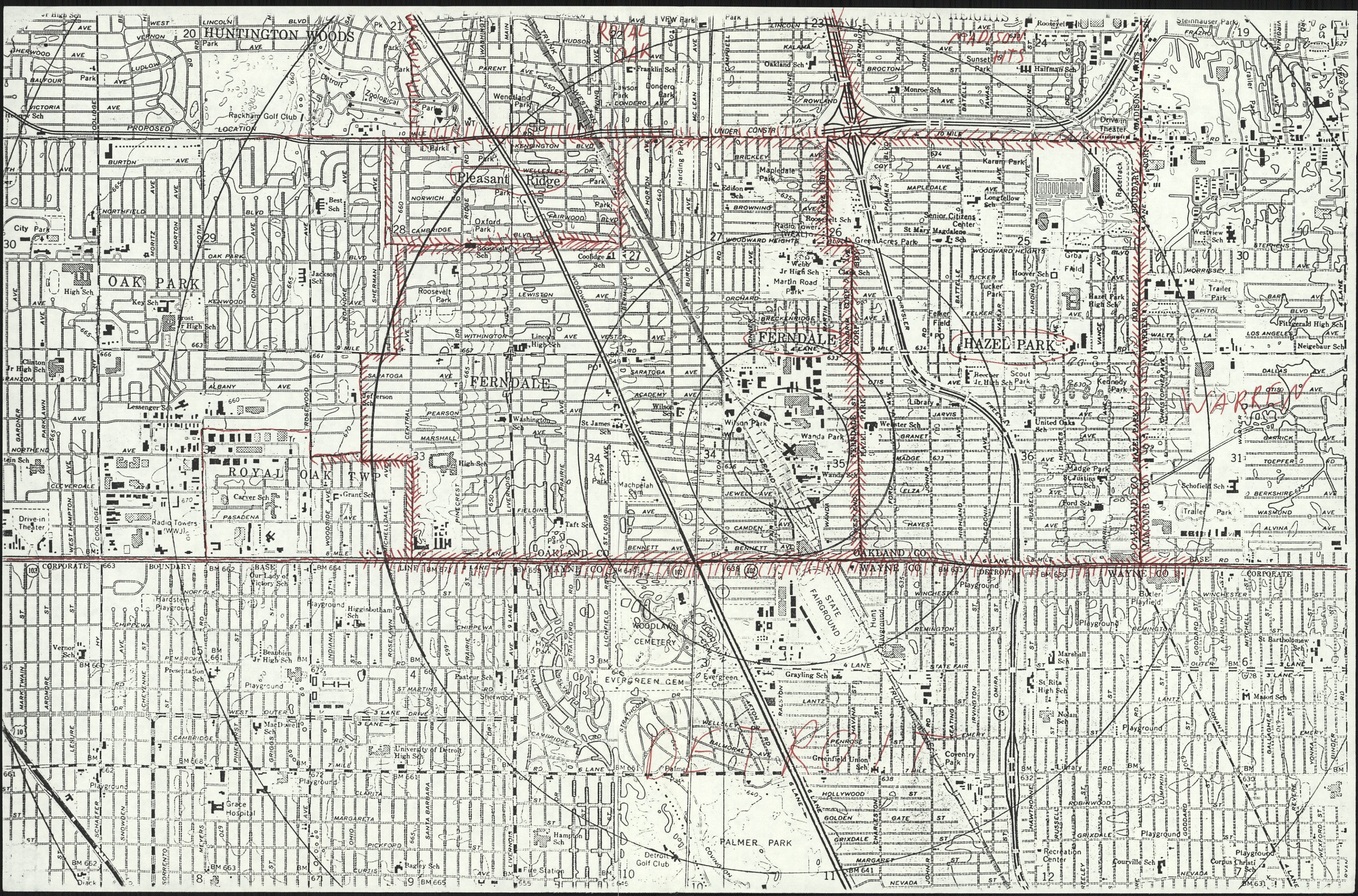
Population Densities	PPM ²	1 mi		2 mi	
		area	pop	area	pop
X Ferndale	7,088	11.25 1.73	12,248	25.3 3.72	26,371
X Royal Oak	6,274			3.4 .50	3,137
X Madison Heights	5,202			2.99 .44	2,287
X Hazel Park	7,746	9.16 1.35	10,434	14.61 2.15	16,643
X Warren	4,684			3.0 .44	2,066
X Detroit	8,874	4.23	5,520	20.59 3.03	26,869
X Pleasant Ridge	5,362			2.52 .37	1,987
X Royal Oak Twp	8,263			.6 .09	729
Tot =		Tot = 80,089			

$$\div 3.8 \text{ pers/hshld}$$

$$\text{bldgs} = 21,076$$

10.20
10.39

~~Anyone interested in~~





REPUBLIC STEEL CO. STEEL TUBES
 SITE
 Ref # 3
 Site Name Republic Steel Corp.
 MID # 005515705

Royal Oak Quad 7.5 series

POPULATION - 3 MILE RADIUS
 161 DWELLINGS (3.8) = 611
 FERDALE 26,227
 HAZEL PARK 20,914
 PLEASANT RIDGE 3217
 20% ROYAL OAK 14,178

65% DETROIT 60,106
 25% OAK PARK 7804
 35% MADISON HTS. 12381
 10% WARREN 16113
 20% HIGHLAND PK. 5581
 30% HUNTINGTON WOODS 2081

Highland Park Quad

TOTAL = 169,353